

SEQUENCE LISTING

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 Liu, Chenghua

<120> Compositions and Methods Relating to Lung Specific Genes and Proteins

<130> DEX-0291

<150> 60/252,500

<151> 2000-11-22

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<211> 602
<212> DNA
<213> Homo sapien

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caagtatagg gacttgtcta aatgtgtcta tactctaaac ctgggggaag gtggtgtgga     180
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| | | |
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| <212> | DNA | |
| <213> | Homo sapien | |
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| tcaacttcaa | aatttaaaga gtaaaaatcc agagataaag attgggggta agttacagca | 360 |
| taaaaaaaa | ggaagaaact tcattggtgg ggggaaatct aaaattattc ttacataaaa | 420 |
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| tgaaggtagt | tgacaacggt gacctacca aatgagtttt aacatcagct cttttttcat | 600 |
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| accttcagca | ggagtcccc aagagtgcc aactcccctt ccacagatc akaacgctgt | 720 |
| agttgtgtgc | ctgcaatcct ttgtatttac ctcatctctt cccatcataag tccctactga | 780 |
| gttttaaagt | tagggctgga aaagctatgc ct tactggga cagcaaggaa ccaatttttt | 840 |
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| aagatcagcc | ttcattcaag ttccagggtt ttcttctccc ctgaatgatt actgcaaagg | 960 |
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| ttgcattctt | ccccccattc tccacattgt cctatcttaa gtccaaggccc ttttcaectc | 1080 |
| caaaaaaaaa | aaaaaaaaatat ttttttcagc actggtgttc aaaagcaacg tttttatggt | 1140 |

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| ccaaataaag | gccagacca | acatcctggc | tctctaaaac | ctgtccaaaa | tcattaagtg | 1380 |
| aaaggcgta | aatgcaggac | tgtggatcat | gtcaactgcag | ctgacaatga | ttacaatatg | 1440 |
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| tcattgtctac | atacaaatga | aagctagtaa | gaacacacta | acgtcacaa | tttctcattc | 1860 |
| taaagtgcga | aagcctaata | atctgaaagt | gaacagggta | aggcaaaatt | aacccccac | 1920 |
| cccaataaag | ttcttgaa | ccatatatta | tataccaagt | acattctcta | aaaattgtta | 1980 |
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| caggaatact acatccgggt cctaattgtc attgccattt gcggtactac gttcctcaca | 3420 |
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<211> 234

<212> DNA

<213> Homo sapien

<400> 23

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| <212> | DNA | |
| <213> | Homo sapien | |
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| cgggaacattg | taaacattta | atactactctg tcaaaaacaa atgactgaaa gaggcagatgg |
| aaagagccaa | tctctgcattg | aagagatatc catggtggcc ctaaaaactac tcaaaccaga |
| tgtctcttcca | gcttcccact | ggaaaatgga cgggtgggca aaccaccatc tcacatctca |
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| <212> | DNA | |
| <213> | Homo sapien | |
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| gtcccaacac | agggtg | |
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| <211> | 1690 | |
| <212> | DNA | |
| <213> | Homo sapien | |
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| gctcaagtgc tggcaacagg caagaccctc ggggctgaaa ttgatttcaa gtacgccctc | 300 |
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<211> 461

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 <211> 4043
 <212> DNA
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| tcactaataa | gtgacctaaa | attaaaaaaa | acacaaaaaa | gtttcttaaa | aaaaaaattc | 1080 |
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<213> Homo sapien

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 <212> DNA
 <213> Homo sapien

<220>
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cattggcacc accgtggggc gcaggaggag agatgagcag ctgtctcctg aagaggagga      360
gaagcgtcgc atccggcggg agaggaacaa gctggctgca gccaaagtgc ggaaccgacg      420
ccgggagctg acagagaagc tgcaggcggg gaggaactct cgttagggtg gagcacctc      480
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accacaaat gccctacaga tgagtcagtg gagatagagc ttctcttctt ttggacacat      600
gggtcagcat tgtgttgatt gannnnnnnn nnnnnnnnnn nngtggcggt tagcaccagc      660
cagggcccgag agggaagaaa tgaacaacct tctgtggggg tgctagccac ggtttttacg      720
cagcacctga gtgttctctg ctcacagaac tgtggggggt cctgggtgag ggatgatgga      780
gggtgggagc cagggcagggt ccagacctgc cccatccagg gctgcttccc gaggttccag      840
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gccagagaga agtcttgatg gagataggtc acgtggcagc aggggttgat tttcttgggg      960
ttttctcatt tctcttatg gcaggcgggt tccccacctc tatcatgaac tcagagctgt      1020
ggccatggtg ccgcgtgctg ctcttgtagg tcaactctcc gtgccgccta attgcccaga      1080
cctggggacc cgcagccctg cccttccctc tgtaagcgtt gacctgacca acgtcacgta      1140
actcccttca gagcctggcc ctgcaggaag ggccgtgtgc tgtgtggagg aagccccgag      1200
ccagggttga ctctccccag tggaatgctt tcagagttag gagatgagag agactctgtc      1260

```

```

agtggtcttc acagtgactg cccaggatgg ggcttgggaa aacatccctt cacacttttt 1320
ttgttattat aa 1332

```

```

<210> 31
<211> 571
<212> DNA
<213> Homo sapien

```

```

<400> 31
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ttacagaggg agatcccaac tcttaaaaac taaaacaaca ataatatat acaagaatca 180
taacataaag ggattcatgc ttgaaaaaaa tccataaact ccttctctaa tattgagaca 240
ctccaggctt ctttcagaca aataacttct aattattcca tatttttcaa gttattaacc 300
aagataaaga atctctcagt tagtggggaa aatgaaaatt attaagaata gaattgtctt 360
ctgactttta aaacaattta gactttaaaa catgaactgt ttactcaggc tggtgatact 420
ctagtttggt agtatccat acttgaagat atcatcaaga tcactatagt tgtatatatt 480
ctctattttt atatgtaatg ttaacttagt tcaagtattt ttgtcttgta tcgttaactg 540
atcatcaaat acaatcctaa agatatatca g 571

```

```

<210> 32
<211> 240
<212> DNA
<213> Homo sapien

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```

<400> 32
cggggcaggg acatatctta cagaaaaaaa tcaaatatgt atacaataaa gtatgcacag 60
gatttagaat cttacataaa aatgtattta acttggtggt agtggtgtgt tgtgtttccc 120
aggttaagta aaattagaaa gccagaatca caagccacaa aaaagaaaaa ctgataaatt 180
agataccatc aaaattaaaa tctctaactg ctacaataaa taccatcaag aatgggaatt 240

```

```

<210> 33
<211> 1026
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (883)..(883)
<223> a, c, g or t

```

<400> 33
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tggaagaccc acagcctgca gacactgtgt ggctggaagg tggcgacggg agtgggtgccg 180
gtggagtgtg gagctgtctg aaagtgacgc agcagacagt agaagcatag gtgggcgaag 240
cccaggtgac cctcaaaaac ttgcacaaga acatcaggga aaaagaacta gaatccttta 300
aggaaaaatgt tcttcatgta tgagagacta aagtgtttt tctaagaaag ttcagccctt 360
ctctgactta cctggacatt tctagatact tccaaaggac cctctgggaa tccatagctt 420
cctaactctg agatgggagg tcataaggga gacgctgtg gggtccctga agtttctgtg 480
gttcacagag gagccccctc acttgggtgt ctcccgtag ccagcctcca cctgccaag 540
acactctggt cctcgtatag tgagtaatgg ggctcagggc ctctccaaca acagagagga 600
gctgatgctg tagggctgac cccgtgactt cctggagtcc tcacctgtc cagtgccttg 660
agattcttcc cactctccca tctctaccag ccggatcggg cgtctgtcag tgtggtcagc 720
atggtgaaga aagtcatttc cttggtggac agtatcttc tttatcttc attacactgg 780
aatgtttatt tctgctgtat catccgtgct ccaacgttcc tagtctgtca ggctcacctt 840
ctctctggaa agaattgctt aacttgacat tccatgtgcc gctatataaa tatattttga 900
aagaacaaaa aaacacaaaa aaaaaaaaaa cgtgggggta acctgggcca aaacgcgtcc 960
ccgggggtgaa ttgttctccg cccactcaa cccaccaa ccaaaaaata acagacaaaa 1020
aacaaa 1026

<210> 34
<211> 1545
<212> DNA
<213> Homo sapien

<400> 34
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aacctggcta gactcaccct gttccacata gaacaaggaa agacggtaga agaggctgcg 120
gacctatcgt tgggttatat gaagtcaagg gttaaagggt taggtggcct catcgtgggt 180
agcaaaacag gagactgggt ggcaaatgg acctccacct ccatgccctg ggcagccgcc 240
aaggacggca agctgcactt cggaattgat cctgacgata ctactatcac cgaccttccc 300
taagccgctg gaagattgta ttccagatgc tagcttagag gtcaagtaca gtctcctcat 360
gagacatagc ctaatcaatt agatctagaa ttggaaaaat tgtcccgctc gtcacttggt 420
ttgttgccct aataagcatc tgaatgtttg gttgtggggc gggttctgaa gcgatgagag 480

```

aatgcccg attaggagga ttacttgagc cctggaggtc aaagctgagg tgagccatga 540
ttactccact gcactccagc ctgggcaaca gagccaggcc ctgtatcaaa aaaaaagaa 600
aagggaaaaa agaaagaaag cagcagcatg atcctgacat gacagatgtg ggagaccac 660
agcctgcaga cactgtgggc tggaagggtg gaagggaggg gccggtggag gtggagctgt 720
ttgaagtga cacagcagca gtagaagcag tgggtgggcga agcccagggt accctcagaa 780
cgttgccaaa gaacatcagg gaaaagaacc agaatccttt aaggaaaatg ttcttcattgt 840
atgagagact aaagtgtatt ttctaagaaa gtccagccct tctctgactt acctggacat 900
ttctagatag ttccaaagga cctctgggga atccatagct tcctaactctg gagatgggag 960
gtcataaggg agacgctgtg gggttccttg aagtttcttg ggttcacaga ggagccccct 1020
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gtgagtaatg gggctcaggg cctctccaac aacagagagg agctgatgct gtagggtgta 1140
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tcctcaccag ccggtcggg cgctgtgcag tgtggtcagc atgggtgaaga aagtcatttc 1260
ctcgtggggc agtattcttc tttatctctc attacactgg aaatgttatt tctgtgtat 1320
catcgtgct caacgtttta gtctgtcagg ctacacctct ctctggaaag aatttgctta 1380
acttgacatt ccatgtgcc ctaataaaat atattttgaa agaaaaaaa aaaaaaaa 1440
aaaaaaaaac gtgggggtga cctgggccaa aacgcgtccc cggggtgaat tgttctccgc 1500
cccatcaac cccaccaaca aaaaaataaa cagacaaaaa acaaa 1545

```

```

<210> 35
<211> 338
<212> DNA
<213> Homo sapien

```

```

<400> 35
tgatcactca ctataggcct ggtgctctag atcatgctcg agcggcgcag tgtgatggat 60
ggccgcccgg gcaggctact agaattggagg ggctggaagt ggggccagtg gtctcgtgat 120
tcagcctccc cttctgacac aagaattatc gtggaacagc ttgtgtgacc gatcaactgg 180
tctctccatc ttttaagccat tgtcttggtg actctgttac tgcagagttt ggggagggtc 240
catggcttct cgggatecta tttcttgagc ttcctgaag ccaactcttg gccactggta 300
tgtgatgcga gcacagtgcc tctcctgct cctccagg 338

```

```

<210> 36
<211> 1851

```

<212> DNA

<213> Homo sapien

<400> 36

| | |
|---|------|
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| tcaagtgaag tcactgggtt gtcccatga aatatctcca caatgggtgt gctagacctt | 120 |
| tactctctgt ggcaccacca agaccacctc acctgccag agccctctga agtgactca | 180 |
| gaatggagg gctggaagt gggccagtgg tcttgtagt cagcctcccc ttctgacaca | 240 |
| agaattatcg tggaaacgct tgtgtgaccg atcaactggt ctctccatct ttaagccatt | 300 |
| gtcttgttga ctctgttact gcagagtttg gggaggtctc atggcttctc gcatcctatt | 360 |
| tcttgagctt ccttgaagcc aacttctggc cactggtatg tgatgcgagc acagtgcctc | 420 |
| ctctgctcc tccaggaagc ttctgctgat tgaacgcagg ccagatggcg agatccggag | 480 |
| caaccttctt agatcaaggg aagaaagggg cacaagaggg gaggtagtaa caagataaaa | 540 |
| ggagctccct ccttgatgac tacagagcca tcgtggcagc cctgggcctc catttcagac | 600 |
| gttcattctt cctaagccac caccatcagg gtctcagtc gtcattctc tcatttactc | 660 |
| gggtggtctg gtgagggcgg aatactacct tccagctgtc tgagattaag cctaagccac | 720 |
| caccatcagg gtctcagtc gtcattctc tcatttactc ggggtggctg gcgagggcgg | 780 |
| aatactacct tccagctgtc tgagattaag cagaacagca gctaaagcag taacagcagg | 840 |
| tctctctcag cagcttgcca cagggaagag ggtcccgct gaaccgaact caacttccac | 900 |
| ctgcgcagag gtactaccca ttgctgtaga ggtagctggg tctttaagggt tagaggggaag | 960 |
| gcgcaggagg ggagagacgg cgggtggggg ttgaacaaa ttgagattca caaaagcaga | 1020 |
| ctaggggcgg cgacgtgatc agatgacctg tgcgggcggc agcctctctc cctctctccc | 1080 |
| ttcgtgcgcc ggctggagcg aagagttctt ttgacagcgg tgagcttccc cgccaggaac | 1140 |
| ttactggggc tgcatacccc tagaaacgtg gctttgggct gtggaaacgc tgccctctgtg | 1200 |
| gaagtctctc ctccgggggg tggacgggtc gctgcgcgcc cagcgttctt ctgcgggtctt | 1260 |
| cacagcccgc cgcccgccgc gcctcgggga cctttcgggg gaggcctcag gtcagcgccg | 1320 |
| cccttgcatg ggcgggagag cagagcggcc ccagggcctc tgagctccgg ccccggcacg | 1380 |
| tcccgcctc tctctcgctt gcgggagcgg gggcgcctcg gagggaaaac ttccggacac | 1440 |
| aggccgggag aagaggggccc gtggcgccat cgcgcagctt cctggttctg gccatgtttt | 1500 |
| tttttttttg agacggagtt tcgctctttt tgcccaggct ggagggcaat ggcgcgctct | 1560 |
| cggctccctg cagccgcgcg ctcccgggtt gaagggaact tccgcctca ggccgcggtg | 1620 |
| ttcttgtaaa ttgaaccgg cctatgcgcc aagcgcgggt ctccgcgctg cggagagagg | 1680 |

cccagcaggg ggcggggacc ccgggaggcg gggcctggcc gagctgcgca cccccgggtg 1740
 gttctggcta cgggtaccgc gacctgccca acgaccgttc tccattcccg acctccgcac 1800
 cctaccgggt ccgcagggca ccttctctct ctctctcagg cactctctcg a 1851

<210> 37
 <211> 409
 <212> DNA
 <213> Homo sapien

<400> 37
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 gactttcttg gaatgctggt ccacaccagg tccctgctga aggagacct ggacatctct 120
 gtgggactca ggaacaaata cgagctgctg gccctcacca ttaggagcca tgggaccgca 180
 ctaggctggc tgaaaaaata ttatctctaaa gtataggctg aaggatacaa atgctagaaa 240
 gagggaaatca aatcagcccc gttttggagg gtgggggaca gaagatgggg ctacatttcc 300
 cccataccta ctattttttt atatccgat ttgcactttg agaatacatc taaggtcac 360
 tttcaaaaga gaaaaattgg acacttgagt gacttgtttt tagtttgtt 409

<210> 38
 <211> 2112
 <212> DNA
 <213> Homo sapien

<400> 38
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 cagtccagaa attgaaatac tatcaggggg caagagcctt tctctccagc tacacactcc 120
 atctcccggt agcaagggga aactccgaga ggagggcaac agagccagca tcttgccagg 180
 gccccggagg aggggttccc cgctacgcct gtgccggagg agttccagtc accgagcgag 240
 gggcgcaagg gtgggtgcat cctgcgctgc ggcgggcgcg ctaccagagc gctggtgtgc 300
 agagccacat gaagcctgct ggggactggg ggccaggagg cagcaagcca gctgggactg 360
 agggggagcg tgtctcaggg agacgctgac tcgcaaaagc actcccttcc ttgtgcctgg 420
 gtaaaaagtc tctctctggg gtcctctggc atcctgaata tccagaatgg tgtttctgaa 480
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 cccagagatg tccaatggga ctctgcacca ctacttcgtg cccgatgggg actatgagga 600
 gaacgatgac cccgagaagt gccagctgct cttcaggggt agtgaccaca ggcgtgtctc 660
 ccagggggag gggagccagg ttggcagcct gctgagcctc accctgcggg aggagttcac 720

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cgtgctgggc cgccaggtgg aggatgctgg gcgcgtgctg gagggcatca gcaaaagcat 780
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gatcggggat gcctactcca actcggacaa atccctcact gagctggaga gcaagttcaa 900
gcaggggccag gaacaggaca gccggcagga gacgaggctc aacgaggact ttctgggaat 960
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ttttttatat cccgatttgc acttgagaa tacatctaag gtcattcttc aaaagagaaa 1260
aattggacac ttgagtgact ttgttttttag tttgttttt gtacattatt tatgtgattg 1320
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tgatagctg atttgtctct tctcattgta tgtctatgct ttgtcatcag tgctatagta 1860
aattacaag aaataggtag attgtatgaa cataccacca aatgcctatg atttaggtta 1920
ccaatgtatt ctttctcatt tgggggtttg cttctgtctg tctgtttatt ggaaacttgt 1980
acttcaagta gggggaatcc taattctaata aactccttag ctaagtttta ttattcaggc 2040
aataacatg ttttcatgta aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 2100
aaaaagatcg gc 2112

```

```

<210> 39
<211> 713
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (260)..(539)
<223> a, c, g or t

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<400> 39
ccgcccgggc aggtacctac ctgatgaagc tgttcacgct tccagcatca aactggacgt      60

ttactgtctg cccaaaagcc agtttccaaa aggtttgtctt ccctctgttc agtggattct      120

tgactacata taggtcatat atttcaaaaa ataatgccta gctatttteta ctttgaaatc      180

atgactaaag ccaaaccaca accacagcaa agataaccta aggattttgtt taccagaaat      240

acctacaaaa aagtttgcac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      540

caccctgcc aaaaagttgc catgggtccg caggcaaaagt tgcaaccgga gccgttccctg      600

ggtgaaaagc ttggcggtaa tccttgcctc atcctgtgtc ccttgtgtgg acatttgttt      660

tccccgctcc ccaatctccc ccataccctc ccacaaaaaa aaaccaggac aac              713

<210> 40
<211> 338
<212> DNA
<213> Homo sapien

<400> 40
ctgatttaaa gtcacataat ttactgaaat acctacacag ctctgaatcc aacatttttg      60

tcatgggtat tagaagaaac caaaacaact gactgaaaat gaaatgttca gtcagacagt      120

gtttgtccac atcttttttt ttttgaagtt ttgaatcacc cattcacaga aaacacttgt      180

ttatgggtat aatgcaaaac ttttgaaaac aaaaaaccta ctaaaaatgc ttctgctaaa      240

gtgattggct ttctattcat gctttgaaat aaaattatct agaaagggtg gagaagggtt      300

tgccgaacag ccattctcct gatgtgcctt agattaga                                338

<210> 41
<211> 805
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (241)..(520)
<223> a, c, g or t

<400> 41
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```

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<210> 42
<211> 300
<212> DNA
<213> Homo sapien

<400> 42
gaatgtatga tcactatagg gccatggggtt atctagatgc tgctcgagcg cgcgcagtgt      60
gatggatcgt ggtcgcggcg aggtaccctt tgagcctggg caaggtgcat gacacacact      120
tggtcactgg aggaaatgat gagtagagag tgacaagcag aggaggggag ctttgggcct      180
gagtcctctg gggcacaaga gtgggttgagg ctgggcactt gccacctaga tttcagacaa      240
tgtgtcaqga atcctqgagt ccagaaaaa aacctgtcga gggctctggg cccaacata      300
```

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<210>   43
<211>   561
<212>   DNA
<213>   Homo sapien

<400>   43
ggactgagaa ttctctgtgt ctctcgatat cagtttcttt ccaccagatt gtaaacaacg      60
tgtggaagg tttagttctt agcgcattcca cgaccacac tagtcaggca gaagccccc       120
tgtacaagtg accccttgag ccttgccaag gtgatgaca cacacttggt cactggagga       180
aatgatgaqt aqaagaqtac aaqcaqaqga ggggaqcttt gggcctgagt cctctggggc       240
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```

acaagagtgg ttgaggcttg gcacttgcca cctagatttc agacaatgtg tcaggaatcc 300
tggatgcccc gaaagaaacc tgctcagggt ctggagcccc aacataaagc tttttatttg 360
gcaatgttga gcactaatat gtggttgagg ctctgcaggg ggtctccatg ggtgcaactgt 420
gtagcaaagc tgtgggagaa aggccttacc cctcaaaatt ccagaattat aaatctatca 480
gcccgttgca acttcagcct ggaaaagcca tgggcattaa actccaaact gtgagagcag 540
ccatgtggct gcacctctaa g 561

```

```

<210> 44
<211> 530
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (102)..(182)
<223> a, c, g or t

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<400> 44
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aagatgtgac ttgctcttc ttgccttcca tcatgactgt gnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nngcccgccg cgggcgtctc caccgcctc tcgcgcgcg cccaccccc gccgccccgc 240
gcgccacgag cagatcggag cagcaggccg cgaggagcag gcgagcgccc gccagtaggc 300
gcgacgcgtg ccgcggagac gacgccggg gcgtgcacgc cgctgaggcc gaggacagcg 360
atgcgcccg cgaggcgagg agcgaggagg agcggcgtgg accgccccag cggccgagga 420
cgggcgagcg gcgcggggag gcccgaaagg gaggaggagg tgcgggacgg ggggacgaga 480
agaggagaag agaggggaaa gggagggggg ggagcggaga agagggaggc 530

```

```

<210> 45
<211> 709
<212> DNA
<213> Homo sapien

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<400> 45
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ttattaagtg tctaactaa ggttttagtc ttttttaaag gaaagttgct ccaggattca 120
tcctaaagaa agcaaaaagt aattcaactg atccaccaat ggaattagat gggtagagtt 180
gggttcttga gttttaccac cacttagttc ccgctgaatt ttgtaacttc ctgtgtttgc 240
atcctctgtt cctattctgc ccttgcctcg tgctatctca gtcatttgac ttagaaaagt 300

```

```

cccttcaaaa ggacctgtgt cactgctgca cttttcaatg aattaaaatt tatttctgtt 360
ctagctggga acacaaacaa caactcaact acaaaatcac gctctgtggg cagtatccct 420
tgcgccctta gcctttcccc cgsggtgtcac tttgtcttcg cccccccatt cccccccact 480
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<210> 46
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<212> DNA
<213> Homo sapien

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<222> (153)..(153)
<223> a, c, g or t

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 <212> DNA
 <213> Homo sapien

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 <211> 4940
 <212> DNA
 <213> Homo sapien

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| cttgctccag | aagaagctcc | accacttctt | catcggaac | cgcaagggtc | ctgaggccat | 1680 |
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| attgccccga | ccccgccttg | aacctacatg | gtgctcagaa | tcagctctgg | agtggtcagg | 4860 |
| ctaggctcga | tttttaaaga | ttccccccaa | gtgtctgatg | tacccttagc | tgaggaagag | 4920 |
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 <212> DNA
 <213> Homo sapien

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 <211> 2675
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 <213> Homo sapien

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| tgacacatca | ttttattgg | aagagtatta | actggtgcct | cttctgaaac | acaccaaccc | 660 |
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| gaaagagccc | gtaatttttag | gactctcata | aaattctctc | ttgtttgtta | atgctatttaa | 1920 |
| aaactcagatt | caaggggaaat | accagcttcc | acttgagtca | ctttgaaata | gttaattcaa | 1980 |
| cagccaccatg | ttagaaatat | attggcagcc | aagactctga | actctgcaga | aacatttgtt | 2040 |
| tcaccocagac | ttcaaaactct | agccctgact | atgatgcccc | tgtgtgcatt | tacaataaag | 2100 |
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<212> DNA
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<210> 52
<211> 1139
<212> DNA
<213> Homo sapien

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<220>
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<223> a, c, g or t

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<210> 53
<211> 681
<212> DNA
<213> Homo sapien

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gtgctagtaa gctgggtatc c 681

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<210> 54
<211> 3191
<212> DNA
<213> Homo sapien

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<400> 54
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<211> 385

<212> DNA

<213> Homo sapien

<400> 55

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| | | | | | | |
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| gctcatggct | ttcaggtggc | ctgatcatgg | aaagtaagga | gttaggcatt | accttctgggg | 300 |
| agtgaacctc | gactccatcc | ccctattgcc | acccctaacca | atcatgcaaa | cttctccctc | 360 |
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<210> 56
<211> 1977
<212> DNA
<213> Homo sapien
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| | gaggcactgc | tgcactcacc | aggcacctgc | tggtcggcaa | acttgatgtt | gatgatgtag | 180 |
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| | ccccacgcc | tgatcgtgca | ccccccagac | cggcgggatg | gccaggcggg | ctgcaagtca | 720 |
| | accatggggc | gcagcttcag | ctaccccgat | gttaagctca | aaggcatccc | tgtgtatccc | 780 |
| | tacccgagag | gccacctccc | cagcccctga | tcgggactcc | tgctgcaagg | agccactggc | 840 |
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| | ccatgtcgag | cccgaaaatt | gatgtgtcta | tcttcaagaa | gctgacagag | gctgttcagc | 1020 |
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<210> 57
 <211> 629
 <212> DNA
 <213> Homo sapien

<400> 57
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<210> 58
 <211> 3535
 <212> DNA
 <213> Homo sapien

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| gatcttttgg | cttaaggtaa | catgtaaaag | tagtgaagcc | tttcctttca | tggccctgtg | 1800 |
| caatgtaacg | gttttctgcc | tcctcttcag | ctggaagcgt | tagtggtagt | atgggcacag | 1860 |
| aatatatgta | cactggcgat | gctgacctag | cctccagggt | accctggctc | tgggttcctt | 1920 |
| gacctagggg | acaagattgg | atgaggcaga | tctttgagcc | catgtgacta | tagaatttgc | 1980 |
| tgatgatata | attttacaat | aacaatggat | aggaatttta | cctctctttt | tattagttta | 2040 |
| atattattta | atattatgta | cataagtgtt | cactcgccct | attaaaaaca | ttgagtaaac | 2100 |
| caagttttta | tatagactac | ccttgccata | tgatgctctt | ttctctaat | aatatgcagt | 2160 |
| ttaaactctg | aggaatcaat | gcccgacatt | tcaccacatc | tgaactctgt | gtgggcattc | 2220 |
| ttcactcgcc | tacaaggggt | aaacaaggct | accagaactt | gaatttgact | tatagggagc | 2280 |
| taccagga | ggggaagcc | cttgggactt | tttccaaaac | aatcttctat | ttgaactgtt | 2340 |
| catcagccaa | agtagtccac | tgaggtgaca | aagctttcag | aaatacaaa | atgggaagat | 2400 |
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| tcagatcaca | gaagccgaca | cagaaagaaa | agcatgtatg | caacgcatga | caccgcaggg | 3420 |
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 <212> DNA
 <213> Homo sapien

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<210> 60
 <211> 2497
 <212> DNA
 <213> Homo sapien

<400> 60
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| ttggggggaga | caaggatggg | aagatgcatg |
| ataaatgggc | cctgagcttg | gcaggcaaca |
| 960 | | |

```
<210> 69
<211> 894
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (341)..(341)
```

<223> a, c, g or t

```

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```

```

<210> 70
<211> 1335
<212> DNA
<213> Homo sapien

```

```

<220>
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<222> (278)..(278)
<223> a, c, g or t

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ccctgctaga aatcacaaac cgatttttgt agaataattt gtgccccagg cattaatttc 180
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```

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| atttaattgc | tttttggacc | attgaatagt | tgggaagtaa | gaatttttta | attggcatga | 480 |
| gacggttcct | caactgttaa | attaaccaac | tttgacctgt | ctttagaaaa | aggcttattt | 540 |
| gtatgathtt | gggctaactc | cccggggacc | atattaaatg | acaaaaatgc | tcctttgggt | 600 |
| gacacaccct | acaaagtatt | tgctgttacg | aacataaacg | cccacattct | taatattcaa | 660 |
| tatttttgac | cagtgtgtgt | ttatgctgtc | atctgaaccc | tagagaagca | gtgtcagagg | 720 |
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| aaaagatgct | ccagagaagc | ttgagaatgt | gtttcaagtt | gggaggaggg | ttggagatac | 840 |
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| gttaaaaaaa | aaaaaa | | | | | 1335 |

<210> 71
 <211> 137
 <212> DNA
 <213> Homo sapien

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<210> 72
 <211> 694
 <212> DNA
 <213> Homo sapien

| | | | | | | | |
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| | ctccttccat | actgcactta | accttgctgg | aagactta | gatggagatt | tagggcaate | 180 |

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<210> 73
 <211> 8095
 <212> DNA
 <213> Homo sapien

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| ctactattca | gatggctccc | ttaagatagt | acctgggcat | gcccggtgcc | agcccggtgg | 7860 |
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| tcacctgggg | ggtgggcgga | actcaaatgc | caatggttac | gtgcgcttac | aactaggagg | 7980 |
| ggaggaccgg | ggagggtctg | ggcaccacct | gcctgagctc | gcggatgaac | tgagacgcaa | 8040 |
| actgcacgaa | cqccacccac | tqcccgaact | caaccccgag | gagtcacag | tatga | 8095 |

<210> 74
 <211> 435
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (86)..(86)
 <223> a, c, g or t

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<400> 74
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gcaacttctc agagatacga gggggctagg gttttcccat ctgggaaatg gggtgaaagt      180
ctgcagattg ttaaatgaaa tatagaatca gcagaaaaag aaaagtcagt gatataaata      240
gatcatttca tagaaattag ggtagatttt tatttcaact actactggag aatttaataa      300
aaggcattat ttgaaaagtt tttctaacat agatttaggg ttttttttt tagagtgga      360
acactacatt taaaagcaat tatttgtgct atccagattt tttattatct gaaaatgaaa      420
ttatctgttt tactt                                     435

```

<210> 75
 <211> 608
 <212> DNA
 <213> Homo sapien

```

<400> 75
gggggggcata ttctctgtgt tcctactctg agcaacttct cagagatacg aggggggctag      60
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gagaaaaaga aaagtcagtg atataaatag atcatttcat agaaattagg gttagatttt      180
atttcaacta ctactggaga atttaataaa aggcattatt tgaaaagttt ttctaacata      240
gatttagggg tttttttttt agaggggaca cactcccttc ctactcccca acaaggggct      300
cactatcccc aaagaaggag ctgtggggga cccacgacgc agccccggtg cgggattaca      360
gcatatttct atctcgggcc ccgaggetgc ctgtggggcg aggggagacc tcccatcacg      420
gagacagatc acagaccacg agtgcctttc cgggaccggg acgtggcctc cagagcaggc      480
accagctctt tcctctcta gacagaaata ttttggttaag gttctggggc agggaggggag      540
catgaagtac gaggaaaact tgaattccag attcttaatg caaagtattt atcatttcta      600
ccagaaat                                           608

```

| | | | | | | | | |
|------|----|-------------|------------|-------------|-------------|------------|-------------|-----|
| 400> | 77 | ggagggtggag | gggaggagtg | cctgcgatggc | catggggattg | ttcttcattc | cctttctcaa | 60 |
| | | ctgcacccag | cagcagtggt | ttttgctagg | ccttttgaag | acagcaggaa | tctgggagaa | 120 |
| | | ggaacatcat | cgtctttcac | agcatggaaa | catcaatctt | attccagaga | aggggaagaag | 180 |
| | | tccccaaagg | tatgtccggt | ttaacagttt | ctcaagtggt | ccaggaaagt | ctttttcatg | 240 |
| | | ttctgggctc | aatcgtgatg | ctttgatctc | acttgggtatt | ttacttttag | ttttgtctct | 300 |
| | | aacatctgga | gcaaagatca | gaagacctga | gttccagatt | tattctgtga | ctcaatcact | 360 |
| | | gcttcaatca | ctgaggggac | tggtatgatg | ttctttgtct | tgagcttctg | cttcttgatc | 420 |
| | | taaaaagaca | ggtggttggt | ctgggtgatc | aaaatctctt | cttgctctgt | gtatcttaga | 480 |
| | | atccatgaaa | ttatgtctct | ttgcatctat | gataacaaat | caaaatatga | atcacaaatt | 540 |
| | | tcttacaggg | tttgtgaagt | taaagccgtg | aaagcctggg | aacaaatctc | cccaggggaag | 600 |

| | |
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| gtttaagcaa gcattaactc tttcttctgc aagttccccc attcattgct aggggtgttg | 660 |
| ctgatagcca ccattgcacag ttgactttcc ttgggaaatc atgagtcctt tatttttgca | 720 |
| atttggtctt atctcctaca catcatccag atgggtgcaac atctgggtact atatgtccaa | 780 |
| tggaaattgcc acaactcagc cactgagatc caacattcct gcctctcttc attccaagat | 840 |
| tccttctgtt ctttattgtg gtagacaaga gcaagcattt ttattttgcag agatgtactt | 900 |
| atttaaaaag caattgtgaa agcattttgat ttaataatta ggattgttcc tccacgattc | 960 |
| tttttttgaa aaaaaatttt ttgggtgtaa atttagagtt cataagtaac accaaagact | 1020 |
| gagacaatga agtccatgca tactgtaaaa aaataacata aataacagtc cctagtatgc | 1080 |
| atcagtcatt gtactagagg ctttgtgtgt acattgattg tctcacttga aaatcaaaac | 1140 |
| acggcagaag agtcaaatgc ttttgaatgt gctgaaactc aaattttctt ccagggtcatc | 1200 |
| tctgtatgat tcctctttta cactgccatt actggcttct aaaaccacta aagctatgca | 1260 |
| gatagcctgg tcctaactg ttctaactg ggcattagtg aggggctgcc tgctggcttg | 1320 |
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| gatttgaata taacaactt agactttaaa agttcatcct gaaaaacaag ccttcaagga | 1440 |
| caagtgagga catgaagcaa attcctaagg atgcctgggg ttcaggaagc aaagaagaat | 1500 |
| ctttggttat tcatgaaaaa caaataccag ctatgtggca tcttctggga aagcacagg | 1560 |
| gtgggagaat cctgggggtg gtttggcagc actgtccaaa gtacagtga cttcttaggc | 1620 |
| tgctgaacaa atttctctc ttgcccagg agaatttgat ctgcaggttc ccataagtag | 1680 |
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| taggagacaa gaagaaagct ggtttctcca acaatcttc tcagattccc tagaatccc | 1860 |
| cctttttgca cagcttctct ggagctatga agttcaaagc attgaatcca aactcgaagt | 1920 |
| ccccattcaa cccactcagc cttgactggg ctgattggat cattgccatt ttgattgata | 1980 |
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| tgggtttctt atctctgaac ttccagtcca ctgcaaaagt ctgggcatat attggtgctt | 2220 |
| aataaacctt gttaatgaa taacaaaatg atttttctt tattacaccc ccatttcagt | 2280 |
| agcatggaat tatgaggatg attttgccaa attatgagta ggtcctatta gattagggtt | 2340 |

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 ttaacatttg tgaagtgtat ttatctaatt cattttgatc ttgctaaaat atgaccttta 2760
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 tctgtctgaa cgattgcaat ttcttgggca agtttcagaa cgaccagcat atctgtggtc 2940
 atgtcatctt ggggtcatgt aaccagttcc attggattat catgctgttc ccttgtctga 3000
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<210> 78
 <211> 416
 <212> DNA
 <213> Homo sapien

<400> 78
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 gccccaagcc tctctctgtg gaccttggga ttctgtcttg gcagaatcct ttgtcagcgg 180
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 gctctgggag ggacggaggg ttttgggtgac agagcgagag ctaaaattga ggattcctga 360
 atccagatct tgcctcccat cagccatctt tctcccaata aatttatgtt atgtgc 416

<210> 79
 <211> 1451
 <212> DNA
 <213> Homo sapien

<400> 79
 taaaaaacttt gtcccgatcc atccagaaaa gagtaggtag ctgcatcctg acagcctggc 60
 aaagtcaaga aagttgaagg agaaacatac ctttgagag ggggttttct ttaaaaactag 120
 tgttaagaaa tgcttaggga ttttttttct ttatttttca taactaaagc ttccaccag 180
 agccgctctt gtttgcaact tgtgcgcgac attgcaaaact ttttggcagg gtgggagact 240

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<210> 80
<211> 1336
<212> DNA
<213> Homo sapien

<400> 80
ccgagggtaca aaggctttga ggtccatgga ctatacttgt cccatttat catcccaggt      60
ggtgctttga cctgccata cctggctat taagataaaa agatttggg acattaaaaat      120
tatgaatatg tcagtaataa tccagcacac attgaaatat tgacacagat taccataatt      180
tgtgcaacat cttataaaca atgtcatttc catagtagtc taaggcttca ccagcctggc      240
ccactgtatc taqactttaq gttcatttta ataattatgc ttctcttctc tgtatcattt      300
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```

gggaagttga taaatatcac ttcccttagat accttcattc agtgatatat ctggctttta 360
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aatctacaaa aggaaattca tgatttctact ctgacgccta ggatctagcc aaggctggtc 480
tgcagatata aatgtccaaa ctcatctact attagccata tttgtgagtg cgtttgtcta 540
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acaaacacac aacaaaaaaa acacaccaac acacaaatca ccataacaca acaacataca 900
ccacaacaca caacaacccc gccaccccc caccactcaa caccaccaca caacacaaca 960
cccgcaccca cccccacaca cccccgcccc acccaccaca cgccccacca caccaccacc 1020
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aacaccaccc caccacacca cgcacccaca cccacacac cgccaccacc acacccccac 1140
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ccaccacacc acaccacaaca tctcactcca ctctctcccc ccaccaccca cactcaacca 1260
catcataact cccctctaca cacaacaaca tcaccaaac tecacctgca cacacactca 1320
ctccccacac atcacc 1336

```

```

<210> 81
<211> 1605
<212> DNA
<213> Homo sapien

```

```

<400> 81
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ggggagaaaa accccaccat caacacaaaa gaaggtata aagactgtgc accttttaac 120
aagtcaattt gtagtcagtc cctgggctg tctttttttt tttttaattt tgaagctacc 180
tgaggttttag aattccttca gccctagctg cttttattct gctttttatt taaacaaaaa 240
gagggggagg atctgaagga aactagtttt ctgtacaaag gctttgaggt ccatggacta 300
tacttgcccc atttatcatc ccagggtgtg ctttgacct gccataccct ggctattaag 360
ataaaaagat ttgtggacat taaaattatg aatatgtcag taataatcca gcacacattg 420
aatatttgac acagattacc ataattttgtg caacatctta taaacaatgt catttcata 480

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```

gtagtctaag gcttcaccag cctggcccac tgtatctaga ctttaggttc attttaataa 540
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gccatatttt gtgagtcggt tgtctaaact ttgtcaaaaa tgcctttgcc atgattttgt 840
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cacaatcac cataacacaa caacatacac cacaacacac aacaaccccc cccaccccc 1200
accactcaac accaccacac aacacaacac ccgcaccgac cccacacac ccccgcccc 1260
cccaccacac gccccaccac accaccaccc acacacacac acactccacc cacacacaca 1320
cacccccccc aacaccacc cccccccaca acaccacccc accacaccac gcaccacac 1380
cccacacacc gccaccacca cccccccacg accaccacc acacacaccc acacaccccc 1440
acaccacccc acacccccac cctccccac caccacacca caccacaacat ctcactccac 1500
tctctcccc caccaccac actcaaccac atcatcact cctctacac acaacaacat 1560
caccaacact ccactgcac acacactcac tccccacaca tcacc 1605

```

```

<210> 82
<211> 952
<212> DNA
<213> Homo sapien

```

```

<400> 82
tatatatagg cgcattgggt aatgatcat gctcgagcgg cgcagtgtga tggatcgtgg 60
tcgcggcgag gtaccagggt aagtgattgg cctgcagtta gggctgtgtt gtgcaaaaat 120
cacttgtttt ggggtgttat aaccacattt aggcgagaag atcacttttg gggagcttgg 180
gaactgaggg aggcgcgagg tgcagcagag gcatgagctt gccggggccc gccctcttgt 240
ctatgctcat ggagtgaagg gggggccagc ggaatggccc aaacaactga tttgtttttc 300
tttttttaaa tctttttcag acaaatacca ttgtgtttta gcgaaatgtg tgtataatgc 360
caaatcactg taccccacaa cctgcacac ctctacactg gactgtaatt tcttgttctc 420

```

```

agtttgtctt gctagactgt aagctccgtg agagcagggg cctgtctctg ttgttgagtg 480
ggctttcccc tgtgcctgcc agcatgcctg gcatctagca ggtcttctgt aaagatggga 540
tgagtttgta aacctccag cctcaggagt ggtccatcc tctgaggctc tggggccctc 600
tggcaggcta gtcatttttc tgccatgtac gtacaatget ttattttcat gttgtatttt 660
cctttctagc cagtaagcaa agctcctact ggagcaagtt tctttgtggt gttatctctg 720
tatectttca tcagggccag gccagagtaa gtagggtcct cgaagggtgt tggtaatgaa 780
tgacttttgt accccgcccc gtctggctca ctgtctgcgg ttgtctaate tagatgaagc 840
ccgattcgaa ggggggattt ccggagtget tgggggtgga aaaatctctt attgccgggt 900
actcattggg tcgggggggg gcgagtgagg actgctgggc ggggatgtcg cc 952

```

```

<210> 83
<211> 1933
<212> DNA
<213> Homo sapien

```

```

<400> 83
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cactagccct acagactgtg cacagagctg tttctacctc cagtgcacatg cttccgcca 180
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aaaaatggag tgtaattaaa attcctctta gaaatctaag gaagggtccc tattgaagac 420
caacatcttg aggtcccctg tagtcatttc ttgcccatgt gggaacacat tactgttttg 480
ttgagtacca ggtgaagtag ttggcctgca gttagggtct tgtgtgcaa aaatcacttg 540
ttttgggggt ttagaaccac atttaggcga gaagatcact tttggggagc ttgggaactg 600
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tcatggagtg aaggaggggc cagcgggaatg gcccacaaca ctgatttggt tttctttttt 720
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ccctgtgtgc tgccagcatg cctggcatct agcaggctct ctgtaaagat gggatgagtt 960
tgtaaacctt ccagcctcag gagtgggtcc atcctctgag gctctggggc cctctggcag 1020

```

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 tacacaaata agttcgatac ataagtacag taattgtctt taaaccttat aataagcagt 1740
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 ctgagaatcg cactctgtgt ccaggcagat tgttcttgca taaccagacc cacaataaat 1860
 atctacaact tttcttacat gtttataaaa taaatcttag aaaaaaaaaa aaaaaaaaaa 1920
 aaaaaggcgc gcc 1933

<210> 84
 <211> 376
 <212> DNA
 <213> Homo sapien

<400> 84
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 aagtgtttac acattggggc aaggacagat ttttcttgga gaaggatttt accactgcca 180
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 agctctgttc tgagacgggg gccatagggg ttcttgagga gacagggcag atggaagaag 300
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 tcttttttta caaatg 376

<210> 85
 <211> 1325
 <212> DNA
 <213> Homo sapien

```
<210> 86
<211> 744
<212> DNA
<213> Homo sapien
```

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<400> 86
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cctcaagatt ggaagtttat tttctgactc attcatgaaa gtcattcctt aattggaggc 180
 ccaccattca attattcctc tattaattcc ttgatccttc atttatccat tctgcaaact 240
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 gccagggccca gggggcccat ctctcgttt agctctaggc aaaatccagg ggcattgcag 420
 tggggagcgg gggcaggagc ctggagggaa ggcctgtgaa gggtaggat gtggaagac 480
 aaggtgacag aaggacccaa taggaccttt ctatatctct ggcttagcat tttctacatc 540
 atattgtaac cgtcttattt gctagttttc ttcttactg tgagtacta acagtcatct 600
 ttatcccaag tgccctggatc ataataagtg atcaataaat gttgattgac taaatgtaaa 660
 aaaaaaaaaa aaaaaagggc tgggggaatc agggccaagg ctgtgccggg gtgaaattgt 720
 ttccccccac aaaaaaaaaa aaac 744

<210> 87
 <211> 1833
 <212> DNA
 <213> Homo sapien

<400> 87
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 ctgggtctga agcacgtggt gtacagcggc ctggagaacg tcaagcgact gacggatggc 180
 aagctggagg tgccgcactt tgacagcaag ggcgaggtgg aggagtaatt ctggtccatt 240
 ggcattccca tgaccagtgt ccgcgtggcg gcctactttg aaaactttct cgcggcgtgg 300
 cggcccttga aagcctctga tggagattac tacaccttgg ctgtaccgat gggagatgta 360
 ccaatggatg gtatctctgt tgctgatatt ggagcagcgg tctctagcat ttttaattct 420
 ccagaggaat ttttaggcaa ggcctgtggg ctccagtgcag aagcactaac aatacagcaa 480
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 ggcacaacat tcatgttgac agaacatgct ggaatgcaat tgtttgcaac accgaaggat 840
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acagtcatct ttatcccagc gcctgggtaca taataagtga tcaataaatg ttgattgact      1740
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```

```

<210> 88
<211> 251
<212> DNA
<213> Homo sapien

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```

<400> 88
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tatgtcactt cacaagatgt tcaatttgaa ggaataacca ctacttctct atgtcctggt      120
gtctgtagtg tgcttcagtt ttctcatatt gagttgacct aaatcctgga ttcatgacaa      180
gaaaggagta agtactacta ttcatgttc tattgttta taatctgtat tataaaaattg      240
cacataatta a                                251

```

```

<210> 89
<211> 458
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (327)..(327)
<223> a, c, g or t

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<220>
 <221> misc_feature
 <222> (435)..(457)
 <223> a, c, g or t

<400> 89
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 tttagggtcaa ctcaatatga aaaactgaag cactactacag acaacaggac atagagaatg 180
 agtgggtattt ccttcaaatt gaacatcttg tgaagtgaca tatgtatccc aatgatgcaa 240
 ataatgctcc actctgtcgc tcaggctgga gtgcagtggc gcaattagaa ctcactgcag 300
 ccctaaccct cttggcttaa acaatcncct caccttagcc ctctgagtag ctgacactac 360
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<210> 90
 <211> 251
 <212> DNA
 <213> Homo sapien

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 tcccaccacc tttagaaaaa agtcacccaa tctggagaaa ggtgtggagg ttacatcttt 180
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 gcacggggag g 251

<210> 91
 <211> 2399
 <212> DNA
 <213> Homo sapien

<400> 91
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 acctccccag gacctctcac acccacctga cccatccaag ggccacacca ccccgacaga 240
 tactccccc accttttagaa aagagtcacc caatctggag aaaggtgtgg aggttacatc 300

| | |
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| ccagcacggg gaggtgcag agaggcacc ccaacagtc ccttctcttc tgtgggtaac | 420 |
| caagcaagcc ccgcaaagct tttcccagca gagcacacc agccagcaat gaggcctcag | 480 |
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| tcccattgc tttaggggag atcgagttag aagctgacca aatgcgcaga acacaaagcc | 720 |
| tagcctgtta gcccagctg ctatcactac tgttactcac gaagaaagga actgcagtgg | 780 |
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| caggaagagc agctggacac atgggaagag gcttgacagg tccagagaag ccaaaaggtc | 1080 |
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| cacacaccgg taagtgtcta tacaggatga ggggtgcgga gctgaggatg ttgttctctt | 1920 |
| tgatgaagcg ctgaaaactt cccctggccc ctgctgcccc cctcagggct cctcaggagc | 1980 |
| aagggcataa ggacagggtc ccactctggc ccttcgctgg gggacatggt ttggtttccc | 2040 |
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<210> 92
 <211> 595
 <212> DNA
 <213> Homo sapien

<400> 92
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 attacataac ttcaatagaa taaacacttt tttcccaact tgctataata atagctaggg 540
 ataccctaac aatataataa tgggtttaat tatgaccatt tctctttggc ctgtgt 595

<210> 93
 <211> 1457
 <212> DNA
 <213> Homo sapien

<400> 93
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 agagacaggg tttcaccagc ttggtcaggc tgggtctcga ttccctaaact caggtgatcc 360
 acctgccttg gcctcccaaa gtgctgagat tacaggcgtg agccaccgcg cctggcctgt 420

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aaaaaaaaaa actcggc 1457

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<210> 94
<211> 936
<212> DNA
<213> Homo sapien

```

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<400> 94
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gtcccaaccc atgaatgtgt tatcgattcg cgcattcgtt cgctcgcaac ctcagataaa 360
cactcttcat actttatcac taccttccat cttagtcaaa gctcaagaca aaaattaaac 420
aaaatgacac ctagccattc acctattaca accatcgacg tataagacac accattcgac 480

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gtgaggaaat gacacacgta ttccatcaa cgagagtgtt ggatgggagg gcaggacaca 540
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 gctcttgcat gaggactcac atggacagcc agtggcactg atgctgcag gactgcatgt 660
 gccgacaaga tgatgcacat ttaatatcc aaaatgtaaa caaagtatcc acaaatagtc 720
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<210> 95
 <211> 480
 <212> DNA
 <213> Homo sapien

<400> 95
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 catggacttt ttgtctcttt tggcccttga gtgtgcccca tctctgccca gcaactaata 180
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 gaaactcagc ccatctgtgg cacagtcttc atgcagaata ttgcacccag tgtgaactag 480

<210> 96
 <211> 1111
 <212> DNA
 <213> Homo sapien

<400> 96
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 aagagctctg ctaataagta atatgtttgc aaagtgtctc gctaagtaag gtacttatta 180
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```

<210> 97
<211> 395
<212> DNA
<213> Homo sapien

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<400> 97
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aacgtgacag ctaagaacac tagacaagca tctagcctt ctcaccctac gatctcagtg 360
tgatcttgcc acagagccac tggcaagcca ttcg 395

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<210> 98
<211> 3813
<212> DNA
<213> Homo sapien

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```

<400> 98
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cttttttcca ttatgtaaag aatccagagt atatcgcaat aacaggaata aattcttaca 180

```

| | | | | | | |
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| atfttttttagg | aataatttat | acacagaaaag | tcatttttatg | taacaaattg | gccattgttat | 300 |
| tacftttttt | tttcttactt | aaaaaaaaatt | tttttttaac | aagaaaaactc | agaaaatgca | 360 |
| ttatttgcgg | tgcattccatt | ccatcccgc | ttctggtttg | atftttttta | tcccagacaa | 420 |
| agggataccc | agaggtagac | aaactctggc | aaacctctca | cctcaacctc | actggcttag | 480 |
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| caaacatcca | aatgaaaagt | tgaaaacaaa | acccaaatag | tttccagatc | tttctcctat | 600 |
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| aactcttctc | tgtgccagga | tcctgtgtac | aatgtttctg | taccaccacc | ccggtcatct | 1920 |
| caccatcaag | gagcactcac | ttctccaaat | gacgcaacca | gtcatctaag | atgaaggcca | 1980 |

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| gaaaaatcaa gaggcagaga aatcagcatg aagttaggct agaactgtgg atagatgatg | 3060 |
| ccttggtata gtoaagggtg gtgggttggt ccagtaaaat gactgcacca tcacacaagc | 3120 |
| caagttttct cttttattga ggtgtttctg aagcatttgc tatgatgggc actacactgt | 3180 |
| tagtgttttc tacttaaaag ctacctacat aaaacaaaaa caaaatgaca tcagtaactc | 3240 |
| ggacagttta aacaaacccc ttataaccag ctgaatgacg tgtagaaatc cagtgttgga | 3300 |
| aaccggtagg tatgtgcacg agaggagagg ccattattcc aaggggtcac ctacagtgtg | 3360 |
| gaagaacaaa accctgatcc aacagtattt ctcaatgacc ttaagatccc cggggctcctg | 3420 |
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| tgctgttaag agcagctgtg ggaagagggg agcagagcgt ctgtcctgtg agcagcagga | 3600 |
| ccaggagagc ggaggtacag ccctggcggg gggggcgtga cgccacgagc ctggcgcccg | 3660 |
| gccactgggc ttccagccg gaagggttgg tacatctctg tctaccctta gggaaggagg | 3720 |

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<210> 99
<211> 960
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (716)..(716)
<223> a, c, g or t

<400> 99
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<211> 2754
<212> DNA
<213> Homo sapien

<400> 100
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| ccccagagca | gggcaaggtc | tctagagcgg | gtctcccaca | tgactggcct | cacacaggca | 240 |
| cttcgcctcg | ggttgcctgc | tctgtgtcat | cttaccggtc | caggggttgc | ggtaggaaat | 300 |
| gtttgtaccc | tcttctgatt | gccacctcct | tcccatcgcc | ccttagggac | agggcttgag | 360 |
| ggccagtgag | gcgcctgtca | ggcaccccag | gcctccttgg | gacctgccca | ggggcaccct | 420 |
| gagagctcct | gaaaccccca | cttagcttcc | agacctttct | gcaaaagctc | ctcctggcct | 480 |
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| tggccagggc | tgcaacctgc | atccccggct | ctgccacttt | agggccttct | agaggcagtg | 600 |
| tccttaggaa | gtagctctga | ggcatggggt | ttctgtctct | gtgcagggca | gctgatggga | 660 |
| taagggtggg | aaggacggtc | agtgccttgg | ccccagctgg | ccagcctggc | gatggggaaa | 720 |
| ccaaaccatg | tccccacg | aagggccaga | gtgggaacct | gtcctcatgc | ccttcgtcct | 780 |
| gaggagccct | gaggtgggca | gcaggggcca | ggggaagttt | tcaggccttc | atcaaagaga | 840 |
| acaacatcct | cagctccgca | ccctccatcc | tgtatcagca | cttaccggtg | tgtgactgcc | 900 |
| cttgtcagct | agcatacggt | gggcccacct | ggcccactgg | ctgtttatgc | cactgattta | 960 |
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| aattcttatt | tttagtagac | atgtatttac | caaaaatatg | tactcaatta | ttgtattttg | 1080 |
| gattttatca | atttaaaaa | tgtggaaatt | tgtttgtctc | tacgcccaca | taatattgat | 1140 |
| tttgctctct | ggctctgaaa | gccccaaaata | tttaccgtct | agcccgttac | agaaaaagtc | 1200 |
| tgtgactact | tgagccagac | ctccattacc | tccatccctg | ttggattatt | taaagaaagc | 1260 |
| ctcagacagt | aagggccttt | ttaaaaagaat | aaaatgactt | ggtttgcgct | tggagcagcg | 1320 |
| ggaagcattc | agatgagcgg | ttctgcatt | aacctgcct | atcacgcac | tcgtgtcctg | 1380 |
| tgtggctggc | gagccccct | tggaaaggtc | tgggtcttca | gctggctcct | gcagagtcca | 1440 |
| ccccgcctcg | tggtgggaat | gcagagccct | ttgctttcct | tcttgccgcc | tgcttccctg | 1500 |
| tcttggggac | ccgctggggc | tttggtctgc | atcccctggc | caggtccttc | agggttgatg | 1560 |
| cgtggagaag | gactttgagc | agtgggtggc | agcagtggcc | tcctggccag | ctcacactct | 1620 |
| tgctctggga | ggggcagcct | gatctcacct | ccacctagta | ccttggggac | tgaggacctt | 1680 |
| ttggctcttc | tggagcctgc | aagcctcttc | ccatgtgtcc | agctgctctt | cctgtacaaa | 1740 |
| aggggactgc | tcacagtggc | ctcagcttgg | tggtttttag | gggccgcccc | ccggccctcc | 1800 |
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<210> 101
<211> 301
<212> DNA
<213> Homo sapien
```

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<210> 102
<211> 4318
<212> DNA
<213> Homo sapien
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agtgaagcag aaataggaac acagtcacca ttcaagttag ggaacagtgt atctttaaga 120
```

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gctgacccctt | gggtgacctg | gaaaggggga | aagatggcta | agcatggaga | gaaacgagge | 180 |
| aagagacaaag | ctatgatata | acaccgcttc | agccctgcc | ctcaatagca | cacaaccac | 240 |
| atatcagctt | tctctagaga | aggaacctac | tgtttagtgc | tctcacttt | gcaatgtttg | 300 |
| tgctacgcca | gaatttctcc | agtttttttc | attatcatcc | ccctgagaaa | aaaattacat | 360 |
| tgaatttaaa | ttttccctaa | taagagaaat | taaataatgaa | agaataggat | tttgttgggt | 420 |
| aagattgagc | tttggaaggt | cacgaacctat | tattctatct | aaggtgtgtg | tttgtttttg | 480 |
| tttttttttg | tttttttttg | tttttttttt | tgcaatccct | ctccccctga | accaatttca | 540 |
| cattgggaat | gcaggaccta | gactgctgaa | taaaaagcta | cttcttctat | aattgtcagg | 600 |
| ttctctccaa | tttctcagct | tctctaaaga | catggggtgg | agttgggtgt | gccatcactg | 660 |
| agagagctct | ggaacttttg | actcttagtg | acatttttag | atttagggggt | tcatggcctt | 720 |
| ccacatgttg | ccaccaactg | gtgatctctg | cccttcatg | ctgatcaaga | aagtgaagac | 780 |
| tctctgtcgc | cttcagggtt | gcagtcgcag | aaacattgcc | tgctgtggac | gtcagcacac | 840 |
| aaactgggac | actggtgtca | tttagactgt | cagcagtgca | catgattgta | cgatagactc | 900 |
| caggcaacca | tgtgcactctg | tgcaaatgta | cctctgcccc | aagagaaggg | ttacgggtcta | 960 |
| attaaatgtt | taccaagatg | gtaccagtg | gctctccccg | tgtccttttg | tgttatttga | 1020 |
| gctggtgtat | gacagactca | aggaaatttt | ttaaggaaaa | tgaagaagaa | atcaaccttt | 1080 |
| atgggtctct | ttcattggaa | gaggagaata | aggaaagaaa | tggcaggtag | agaggggagg | 1140 |
| ggaaaggaat | agaaatggca | tgtctttgat | gctgtggcct | gtgtggggac | aatgggaaga | 1200 |
| gcacagcagg | cacaacatat | ctgtgttagt | gccacgtggt | atctgttaag | tatggccaga | 1260 |
| gcctcacata | taagtgaaga | gagttaagac | aattcttgct | ctttgaacaa | taatagtcta | 1320 |
| tagaatttct | attggcaaac | catcccagac | aacctgacct | atcaaacaaa | agcaataaat | 1380 |
| cctctgtcta | gaactgctgy | tctaaaagct | agaaggggca | tgataatgga | aattgctaga | 1440 |
| aaagagagaa | tgctctactc | tctttctctg | gcctacctac | ccccatccta | aaccttgtaa | 1500 |
| aacagaattt | caaaatagat | gtcaaatatg | aagtaattca | gacttccaaa | gaaggaaaga | 1560 |
| gttctgccca | gggcagtatg | agcaaatcca | cagggaatgt | aagattttgt | ccaactcaaa | 1620 |
| ggtttatggg | cagtgagcct | agagtctctt | gagagtaaac | ccttgcatct | gggacaagga | 1680 |
| gaatatgtga | agttcaggag | tgctcacact | agagcaagat | ccagaaaaaa | aaaaatccaa | 1740 |
| tggcatttta | aactagattg | cattatcact | caatgctggt | actttgagca | gacaaatcag | 1800 |
| ttgaatggga | gggcaaatg | cagaaatgaa | caaaagctat | taggtgaaag | catccccaat | 1860 |

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| gtaacagcttg | tgagatgatt | ttgttttaat | gatgatcagg | tttaccattga | agtggcttgg | 1920 |
| aagacgtatt | tcagagggac | tgggttttga | ctgcaaaact | ctgaacacta | gagcagggttc | 1980 |
| tactagcact | tgggcagtaa | ggttagcgggt | gtgtattatg | ctattgccat | agttctcgtc | 2040 |
| tttgtggatt | cacataccct | ttcccatgag | gagcttgcta | ctaacagcct | cctgtttctg | 2100 |
| ttgtttttat | atgggagaag | agaaagagct | tggaatttca | attgtctaaa | caattggtat | 2160 |
| gatttacaag | aaggcacaacc | attcaggaga | tgttcaacag | tgtatcattc | ttagcattca | 2220 |
| atacaatggt | tattataaaa | tatacacctg | agtttatggt | tttctgccag | gctgaagggc | 2280 |
| aataatgtct | tgctatgcaa | acactctatt | ttatgtgtga | atttttttta | ctgtaatttt | 2340 |
| atgtgtgaat | ttttttaact | aaactctatc | atcattttct | atgttgacat | cttttttttt | 2400 |
| ttttaatctg | tttccaactc | tgagtctgtg | aactatctct | cttgactgga | tgctggccta | 2460 |
| aaatctctatt | agtgtctaaa | cagacctcaa | aacactctga | acctgtaggc | caatacagag | 2520 |
| atgttgttct | ttgatatact | tgggctcctt | gatggcttca | acaacaagg | tcataatttg | 2580 |
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| agacctctga | ttctgtttgt | aatgtggcat | tccagtga | acaacctgct | tgctataaag | 3060 |
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| ctggagttta | aacatgactt | tttctgtcct | tgagtataga | tgtgtttgtt | taattaacga | 3600 |
| aqcacaaagtc | tgttaagcag | aaggctccaa | gctgtattct | atacttggga | atccttggtg | 3660 |

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<210> 103
<211> 2288
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
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<223> a, c, g or t

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acaaggcaca tctacgggg gctcgcagtg tgggcaggtg ctgagctaac gcacacacac 660
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| | |
|-------|-----|
| <210> | 104 |
| <211> | 592 |
| <212> | DNA |

<213> Homo sapien

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<400> 104
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gacttggtat aaagtaaagc taatattcca agctaaaacg aggcaccata aaaaatcaac      540
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<210> 105

<211> 2180

<212> DNA

<213> Homo sapien

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<400> 105
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```

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 <211> 611
 <212> DNA
 <213> Homo sapien

<400> 106
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<212> DNA

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| acaatcaccc | attatagt | tgtaattcag | tatttggcct ctcttgtgga tgatcagtat 180 |
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 <223> a, c, g or t

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| cagtgggtcg cccccctttg ccttccaag tgctgggatt accggggtgg ggcccccggtg | 300 |
| cctggcccggt cctatcctcc cccccacct tttttttttt tttttgacat ggagtctcac | 360 |
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| acagtataag ctttccgatg ctaagggtg agatgtgatt aaaggccttg ccgtattcat | 1800 |
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<213> Homo sapien

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<223> a, c, g or t

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| gtctttgagg | caacttgtgt | gctgcccgca | gggctccaga | aagggccttt | gaaagctggc | 4320 |
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<210> 116

<211> 120

<212> DNA
 <213> Homo sapien

<400> 116
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<210> 117
 <211> 1977
 <212> DNA
 <213> Homo sapien

<400> 117
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 gagcattacc ttcatctctg gctctgctga gccggccctt gagtccccca cctgctgect 480
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attggggggg gggcagggcc cactctatgt tatgttaagg agttggttct ggttcttggc 1920
tgatgttctg tatcttaaca tgaccacagt ttgtaagtac ctgcctcgcc accacgc 1977

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<210> 118
<211> 182
<212> DNA
<213> Homo sapien

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<400> 118
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tcaagatgac taatgttcaa aaattgagac atctgttgcg gttctttttt tttttttttc 180
cc 182

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<210> 119
<211> 875
<212> DNA
<213> Homo sapien

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```

<400> 119
ggtcggggcc gaggtaccac attggtccac ttgacactaa ccaatcgatc attttttttt 60
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tagaaaaagt tatagaaatt ttgcaaaaga taagtaacag atagagtcag tagaggataa 180
gatcaaaaac aaaaccaagc aaagatgag ttcaaggggag ttgccatca agtggcaaaa 240
ctgacttact tagggaagaa agttataaaa caggaaaata tgagatgaac cttgagtgtat 300
gtggaagatt tagataaatg gaaagggaag agaaaaatgga gttctttagg tgggtgtaat 360
tgaggaggga aatgaataca cacatcttgt tgacttaaac ccagacattc agcagctctc 420
tatacatatc tggaaaagac tgcacagtca cctcctgtct ctacccccag gtattactta 480

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gaattattat catatttccc ttccctttaa gtaagtaagg gtgatggtga caatatggag 540
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ggctcacatt cagtatctgc agttgcaagc tcatgatcta tagtgccaag ttgcatatgg 780
tagtccatgt cacattatta cctttttata tccctggaat tttcatgggc aaccattagt 840
attcatttta atatcactaa acttccagcc ctgat 875

```

```

<210> 120
<211> 987
<212> DNA
<213> Homo sapien

```

```

<400> 120
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tagaaaaagt tatagaaatg ttgcaaaga taagtaacag atagagtcag tagaggataa 180
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ctgacttact tagggaagaa agttataaaa caggaaaata tgagatgaac cttgagtgat 300
gtggaagatt tagataaatg gaaagggaagg agaaaatgga gttcttttagg tggttgtaat 360
tggaggagga aatgaataca cacatcttgt tgacttaaac ccagacattc agcagctctc 420
tatacatatc tggaaaagac tgcacagtca cctcctgtct ctcaccccat gtattactta 480
gaattattat catatttccc ttccctttaa gtaagtaagg gtgatggtga caatatggag 540
aactatgatt ttccattaa cctaataata attgtattta ttgagtcttg ttaagcattt 600
tacatattaa ctcaacttaag cctttcaaca gcctgggcaa aatagggtatt attatcccc 660
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agcatttcag acttggtttt tttttttt 987

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<210> 121
<211> 295

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<212>      DNA
<213>      Homo sapien

<400>      121
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aagattttga ctgtgtagggt tattctgtgt tgcgctatgg ggtccgcctt tgtgttgctg      180
agctggagag cgtgcctctg ctgccgcgct gtgtcagtag tggggattgc acttttgttt      240
ccagctacag gccaaatttg agcaccttga gagacttcac caagaagaga gaatg      295

<210>      122
<211>      3210
<212>      DNA
<213>      Homo sapien

<220>
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<222>      (954)..(1013)
<223>      a, c, g or t

<220>
<221>      misc_feature
<222>      (1958)..(2054)
<223>      a, c, g or t

<400>      122
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cattcttgac atagttgaca attgacactt gctttccagt gatgtttact agtacagttt      180
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gaagcttgaa gaaaggagag acttttggaa gaagaaataa ttgctttctc taaaagaaa      720
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| cttccttctc caactaaatg tcagctcctg gagaggagag acctgttccc tctnnnnnnnn | 960 |
| nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttgcca | 1020 |
| aaatgaatga atgaacaaaa taaaaatata tcacagtgtg aaaaggatca gttagctggg | 1080 |
| ggaaaatggc tgcctcttatt gaatagccca gctgtggccc tagtacacag ctaatggctg | 1140 |
| ctgacctacc atgagttatt ttgaatttca tgtctaaata aagctgtgccc ctttgttggg | 1200 |
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| ataaccttgg ccattgggtg gctttcaatt tttaaatatg gagaagtaaa ccacaggact | 1860 |
| ttggcagatt ttattggctt atatatatta cagggtatttt tgtttgtttg ttatgttttt | 1920 |
| ttggaaaaga ggaaggaatt ctcatgtatg atcttctennn nnnnnnnnnn nnnnnnnnnn | 1980 |
| nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn | 2040 |
| nnnnnnnnnn nnntttattt ttgaagaat aaatagtata aaagctgtat ttatttcaag | 2100 |
| cattgaattt agaagataa actataaatt tattactgct tttcaacatg ctttggattt | 2160 |
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| ttatcacctc gctccacttg agaaccctgc tgttgttttg aaaatcagga ccaagcccat | 2340 |
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| ttttttcttt tctttttcaa agtcccatgg ccagatatcc tataatatac tagatgcatg | 2460 |
| tttgctaatt ttacttgaa ttttttttaa attgtacca tcaaaagggt ctttttcttt | 2520 |
| ccagctccaa ttttttgtaa aacagaagtt ccagagcaca gaaggtcatc atcacaagca | 2580 |


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<210> 123

<211> 662

<212> DNA

<213> Homo sapien

<400> 123

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<210> 124

<211> 1845

<212> DNA

<213> Homo sapien

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<210> 125
 <211> 306
 <212> DNA
 <213> Homo sapien

<400> 125
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 agccaa 306

<210> 126
 <211> 2049
 <212> DNA
 <213> Homo sapien

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| atgacaccgc | agggcggata | aaaacactcg | taggcgggac | cgccgcagaa | cgatcgaaag | 1980 |
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| | | | | | | |
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| cactcggaaa | aactttcggg | ccctttacaa | caacttgttt | ggaccaaaag | ggcctaagc | 1860 |
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| aaagaaaaag | gaggaagaga | tcgacattga | tgtggacgac | cctgccgtga | gtcgggtcca | 1980 |
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 <211> 151
 <212> DNA
 <213> Homo sapien

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| agctatacta gatagcctca tgatagcatt tacgataaga acttatctcg tgtgttcacg | 660 |
| taattttttg agtaggaact gttttatcct gaatatgtga gctaactata tatagcagaa | 720 |
| ctgcctcagt ctttttaaga aggaaataaa taatatatgt gtatgaattt atatatacat | 780 |
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| ataccatttt ttggcaactt ggtaactaag aatcacagcc aaaattttgt aacatcaaag | 1020 |
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| actttcttag accagtgtaa cctcacacct cagttttgct tttccaaacc tgacttgaaa | 2220 |

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| tcttttccca | aggccagacc | tcctggtgga | gcacagttaa | aagtaacatt | ctgggccttt | 2460 |
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| ggattaattg | caaaaagaga | atacagtaaa | ataccatata | actggacaaa | gctagaagaa | 2640 |
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| tttggggact | gatgccctta | aaggttatgc | ccttgaaagt | tcttaccttt | tctctagtga | 2880 |
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| tgaggggttc | cctggatgcg | ggactttccc | tggatacaaa | acttttagca | gagtttttga | 3000 |
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<210> 140
<211> 321
<212> DNA
<213> Homo sapien

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atgattaact tggcataaac a 321

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<210> 141
<211> 1438
<212> DNA
<213> Homo sapien

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gtatttgaac cccatttctc gatgctcacc cagaagttcc tggctgggtg agtagtgtaa 480

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<210> 142

<211> 368

<212> DNA

<213> Homo sapien

<400> 142

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<212> DNA

<213> Homo sapien

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<400> 145
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<400> 146
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<210> 147
<211> 661
<212> DNA
<213> Homo sapien

<400> 147
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tgctttattt atcatcgatc ttcaactcact ggcagtgaag ctctgtgagt gcaaagattt 480
tcatctagct aatcttccag aacagtgtct ggcacagaga aggagctcta tgaatatgtg 540
ttgaatgaat gactatcttt gccttgtaaa ccccatgcta ttggctctct cttcagggtg 600
ctgaccactg caccacaggg catgctggaa agacaggagt cccaagccct ccttctgct 660
c 661

<210> 148
<211> 1897
<212> DNA
<213> Homo sapien

<400> 148
agttttgcgt tgcgccttgt tgcttgcgtc cgtcgtttgt ttgctgtgg cttctgccgt 60
ctttttgtgg gctcgcgctt gccctgacct gccgtgtca ccttggcgc cgcctgggt 120
gctgggggtcc gcgattgcag tcctttgata gtgttagtga ggggggctgt cgtgcgtggt 180
gtgtatggtc cgcattgggg agtcattagc atgttaggtt gactgtctcc cggtcctgtt 240
aacgtgcgtc tggaaggtag atttttgtaa atcaagtagt tggaactaaa tccaacactg 300
ataattgcc aattcaaacac tgatctgaaa agtgaattag aagctgtaca atatcatcat 360
tagaaattct gcatatggct aataaatatt ccttttaaaa ttaatagagt cttaaagtctt 420
ccacatgac ttacagata gagtgggaca ctatagaatt ctgattatat gatttagatt 480
ttaggatgt ttaaacattt taaaaccact agaaggacat tgggaacaga aagtaataga 540

gccaacgtca cgtggtaaat atcaatagtc cagttctacg aggagaacaa ttttaagctc 600
 ttcactgagg ccaattctgc tgtattctaa ttctcttttag gttcttggtg gtagagtaat 660
 gagctatgac catctctgga atactggtga ggaaaaatggc agcagtaaaag aaatgaggaa 720
 aatattacct aattaatgat aaagttaggt ccagtagaca gtctctgttat ttttctcttt 780
 ggccctattt ggctgctttt attaatgcat cagaacttta tgtataatca tatggattta 840
 tacgtaaat aagaaaaaat gtccatttca ttcagttcat atgttctaaa cgtattgctg 900
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 tttagcttac attctaagca tgttctcttt atctttctct aaagctatcc acttttaatt 1680
 tcactctata ctacagagaa aatattatgt gaaactgata gctttccaga aggttactga 1740
 aatcacttat ttttcagtgt ctactctggc accattcata gtagctaa ca ttagccactt 1800
 tccgtgggac tgggtctgtg ttaaagtgtt ttacatatat tatttctttt aatccgcaca 1860
 atgatccttt caagtaggta ctgttattat toccaat 1897

<210> 149

<211> 254

<212> DNA

<213> Homo sapien

<400> 149

ccgaggtacc catctagctt ctggggetcc actgacagct gaggacagtc cacaccgac 60
 ctggacccca cccacacctg ggtctgtcca tctcagtcgc ggccctgacc tctgggccc 120
 agccacctct tctgagcagg caggcagagc gaaagactgg gacgacaga caggggcaga 180

gcacggccca tgagcccacc ctccacttec cagattgggtc agagttacat ggtcaccttc 240
cctgcacctg cacc 254

<210> 150
<211> 1993
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1822)..(1822)
<223> a, c, g or t

<400> 150
aaggatcctt aattaaatta atcccccccc ccggggcgcg ccagcgcat cgtgcccgcg 60
cgcccgagcg cagctacagg aggggtgtcca gaagccacaa gccatggctg tggggaaacat 120
caacgagctg ccgagaaaca tcctgctgga gctgttcacg cactgccccg cccgccagct 180
gctgtgtaac tgccgctctg tctgcagcct ctggcgggac ctcactgacc tcgtgaccct 240
ctggaaacgc aagtgcctcg gagagggtct catcactgag gactgggacc agccccgtggc 300
cgactggaag atcttctact tcttaacggag cctgcacagg aacctctctg acaaccctg 360
cgctgaagag ggggttcagat tctggagcct gtagtgtaat ggaggcgatg agtgaaggt 420
ggaggatctc tctcgagacc agaggaaagga attcccaat gaccaggttc gcagccagcg 480
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tggggacctt ccagccagac ccggcgacca tccagcagaa gagcgatgcc aagtggaggg 600
aggctctccca cacattctcc aactaccgcg ccggggtccg ctacatcttg tttcagcagc 660
gcggcgctga cactcattac tgggcccgtc ggtacggccc gaggttcacc aacagcagca 720
tcaccatcgg gcccccctg ccctgacacc cctgagccc ccactctgtg aacctgact 780
ggtaaacaac tgctgtcaga aaagggtctg gcttgggaag gggaggtgga ggccaggtgt 840
ccccagacct ctaaccctg ccctagcag cctcttcttt gtggagcctc tcagtgtggg 900
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ctgaccaatc tgggaagtgg aggggtgggt catgggcctg gctctgcccc tgtctgctgc 1260

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tcccagtcctt tcgctctgcc tgcctgctca gaagaggtgg ctttgcccca gaggctcagg 1320
ccgggactga gatggacaga cccaggggtg ggtgggggtc aggtcgggtg tggactgtcc 1380
tcaactgtcag tggagcccca gaagctagat ggtgaccagg tggggttagg ttcccagagg 1440
actgagggaa tctgtacag gatgtcccag ggtagatggg gagcaggatt gggacctgt 1500
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ccacctccca aatccaggcc cggccccctc tggtctggag agcattccaa gccccacc 1620
caccctaga actgccattc ccaagacctc tgtctcccag ccaaccacc ttggaacttg 1680
cctcttgtcc tgcctgaaag atagcagtgt tctcctgact tcgcccact gcattgcagcc 1740
aaataaaaagg tgtgccagct ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aaacaaaaac tattgcttgt gtttccgttt 1860
ggattggctt tgcgtatcta ctttcagtgc tttcgtcatt tccttcttcc tagctgetta 1920
tcatgcgata ggctacactg tgetccttcc tcaattttac ccagttctaa tgggaatggt 1980
gtgttttagat ttt 1993

<210> 151
<211> 170
<212> DNA
<213> Homo sapien

<400> 151
gcgtggcgcg gccgaggtag atactcatat ttataaggac ttcctcacta ggagagattc 60
ctgggttcta cagaataaaa ttcttggtc cttgtcttat agctctgaac agacttattt 120
tcccagagag tatgtttatt atgtaatagc gaggttgectg accccccaaa 170

<210> 152
<211> 1394
<212> DNA
<213> Homo sapien

<400> 152
taggtctgta tagaatacga ctgaaagatt ttgactgttg atttcccttg aagagattct 60
cctgttctcc tcttcagagg aaagagagag gagagagggg gagaggagag aaaagagaga 120
agagaggggtg acttttctatt atatgccttt gtaatatatta atctctctcc ttttctcacc 180
cccttgagca tgtatgcttt tcaacaatta aaaagattaa aaagctctta aatagataag 240
aatttcttag agcaactagt aagtacacta actgccaaat gttttgaaat gtagacattc 300
tgaaaaatca aaatgattgt gccgaatgta ttttaaaagg ctaaaatatt atagcatttc 360

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aaagtacata ctcataat tta taaggacttc ctccactagga agattcctgg gttctacaga 420
ataaaattct tggctacttg tcttatagct ctgaacagac ttattttccc agagagtatg 480
tttattatgt aatagcgagt tgcccgacct cccaaaaagc tgtgttctat catattaaaa 540
taaggcaaaa tgattacttt cagattaaga aattgtggga ctctagatct tgttatatag 600
tgaagttctt taaaaaactg aggtcttggt tctgaataat agtgggttta cattaattta 660
tttagaattg tcattggggg tatctctgac ctatttttat aaaataatct caatttttaa 720
aataggagta aaatgctcat tggcataagc cagtaataat aatttagtat tttccaagt 780
atttatagtc aatgtgttgc catgaacttt tttaagggat gtttttaatt ttagaagtgc 840
tttaaaaagc aatattggat ctggctctgt agaagtagaa aacatggtaa cttcaatgtg 900
atatatttgc ttttttccc tcttaggtct ttggggtaaa aaaaatccaa agtttactca 960
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catacctgtc agtgatacta atacctccc tctgtacagt gtttcacagt ttccaaaggg 1080
ttctcgcatg gttcctcact tgagcctggt gaggaaatc ctgtaaacat gggtagaagt 1140
tttagtcctt tgtaaaactc tggataata tcaaaaccag gaaattgttc acagattcta 1200
aggattgggg aaaaagagaa aataaacaat ttgctcagga gtagaattga aaaaagaaa 1260
aaaaaaaaa aaaatttggg ggcgggcccga aatttaaaac gttggggggg ccagggtggaa 1320
tggaagggca ggaacggga gatggtgttc caaaaaagcg ggcgggtga aaaaggcgcg 1380
gggggtacga ggggt 1394

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<210> 153
<211> 368
<212> DNA
<213> Homo sapien

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<400> 153
gcactgagaa aggatatgga caagtcagtc agcattcaca attaagagaa aaacatctgt 60
gctttggaaa atgttcttca aggatagaga attgtgccct atgtccacca aatttgcatg 120
agatctttat aagattagac agccagtgga taaggccctt tatctttctt catggatggc 180
tgaggaaatt ctccgccttc cctgacatca gctgcataac tgtatttctg cctcgtggaa 240
ataaagtaga tgatcaggca cttgcggttt gttcttaata caagaagac aatttgattt 300
ttaaagttt tgattttagt aataatgtaa gacaatatgt ttctttctac ttggtttttt 360
ccattcaa 368

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<210> 154

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<211> 864
 <212> DNA
 <213> Homo sapien

<400> 154
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 ttttagtacac agtgcgtgtt atgacagaaa aaaattttat cctacctctg aaataattgt 120
 actttctgtg attcagataa aaactttata gaaactccct aatgaaaaa ttgaagcatt 180
 aaccagaaaa tgagtcagct ttttgtttcc aaaatgatgc aacaggaaaa cctttaacta 240
 cttataatcc cgtatagta ccatcaccac aaagtattga aaatctgttt tctcttttac 300
 taagtgtctg cacggtcact tatgtatacc caaagccaga aagatatttt tatctcaggg 360
 aaatccaga aatggaaaaa tttttgtgta atattgattc atttctgtct caccaagat 420
 gtgttttcca cgtagcaag aacatcagcc ccacgttata gggaacaagc gagtcccaaa 480
 tctgaccatc tgctgagcac tgagaaagga tatggacaag tcagtcagca ttcacaatta 540
 agagaaaaac atctgtgctt tggaaaatgt tcttcaagga tagagaattg tgccctatgt 600
 ccaccaaatt tgcattgagat ctttataaga ttagacagcc agtggataag gcccttcttc 660
 tttcttcatt gatggctgag gaaattcttc gccctccctg acatcagctg cataactgta 720
 tttctgcctc gtggaaataa agtagatgat caggcacttg cggtttgttc ttaatacaag 780
 aaagacaatt tgatttttaa aagttttgat ttgtagaata atgtaagaca atatgtttct 840
 ttctactttg gtttttccat tcaa 864

<210> 155
 <211> 179
 <212> DNA
 <213> Homo sapien

<400> 155
 gcggcgcggt gttatggagt agcgtggttc gcggccgagg tacatgtttt taaaaatga 60
 ctacatgttt cacctggccc tatttttgct atttggacca tacttttaag atgaattgat 120
 cttacatata tgtaagtct gatttatctc cccacatttt taaacactaa atgaagctt 179

<210> 156
 <211> 1849
 <212> DNA
 <213> Homo sapien

<400> 156
 gcttgatacg ctctcaagga atttgccttc gagcaagcaa ttcggcacga ggctcgaacc 60
 cctgacctca agtgatcagc ccgcctcagc ttcccagagt gctgggatta caggtgtgat 120

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ccactgcacc | cgcccgcat | tatgattttg | tgtactcttg | aaatgggtat | ctttgtggat | 180 |
| gatttttttt | ttttaagctg | aaacttacct | catgaataac | ttgattaaag | tagtaggtga | 240 |
| ttaaaaatct | aatagaatca | aatgagacaa | aaatttttaa | ctgactcatt | tgagtttcaa | 300 |
| ctttacagtc | attgaccata | aagcacacta | aaaatgtaag | ttatttttaa | atacatctga | 360 |
| aataaaaaata | cttactaaaa | aggaagaagc | cgaagatgta | tatttagacc | agcacacaat | 420 |
| tttgatttca | attagcctta | ttctaataatt | tagcttttag | atctttcata | cacattttca | 480 |
| cgtacttttc | aattgagacc | agaaagactt | gtaggtcttt | ctgcagaatg | agtgggtcct | 540 |
| tgcaaagtga | gtgggaaact | tactcctaga | tcagaaatgt | ttgcctctct | gagtaaaatg | 600 |
| ttcttttcag | atgagccata | gagggggcac | cttttactca | acttttcttt | gttttgaaac | 660 |
| tttgtttccc | atactgtttt | cagccttttg | tttataatta | gaaattgtga | gaagcttcat | 720 |
| ttagtgttta | aaaatgtggg | gagataaatc | agacttaaca | tgtatgtaag | atcaattcac | 780 |
| ttaaaagtat | gggtccaaata | gcaaaaaatg | gaccagggtg | aacatgtagt | cattttttta | 840 |
| aaacatgtac | ttgggtctttt | gtgtgtgtct | gttttatctc | attagaataa | atgtgtcctt | 900 |
| gatgtaaatg | caaagcattt | cttctcgatt | aaattgtaga | tgtagacttt | acaatataat | 960 |
| tcaataataa | aaagtaatta | acctctaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaacac | 1020 |
| ttgttgggcg | cggcgcgggc | cgggagaaaa | gttttttaaa | cccttcgtat | ggcgcgaggga | 1080 |
| ggggcccccag | gtagggggaac | ggaacacagc | ggccacggcg | gtgtagcaag | agggaaaacc | 1140 |
| cgggtggcgaa | gaaaaagggc | gtggattctc | acccaataaa | aagcgcgcgc | gggggggaacc | 1200 |
| ggaaggcggt | tgggaaacaa | gactctcaga | aagaggggaga | ggcgtcagcg | gaggcgacaca | 1260 |
| ataaaggggg | gactctctac | aacaccgggg | aggagctccc | gaagaggaga | cgcccgcgaaa | 1320 |
| tagacaacaa | ttacagcccc | cgggcgcgcc | gggggcagat | accagaagac | gaagcacgag | 1380 |
| acgaagttag | acaagaagaa | aggacagaca | gaagcgagac | gagaggacag | aagggaggag | 1440 |
| agagaggcgg | aggcgagggc | gaaaacaagg | ggacgacagc | aacgagaaga | gaaagaaaaa | 1500 |
| cacgacggag | gaacggggcg | gaaaaaggac | gagaaagccg | agagcaggcg | ggcgggggca | 1560 |
| cacgggggaa | acgaagagca | aggaaagaag | acaacaggag | aggaggggag | ggaagcgagc | 1620 |
| gaagagcgta | gagacgccga | gcaacaagaa | gctagagaca | gcagtagaca | cggacagaca | 1680 |
| gacacggtga | tggtagccgg | ggcgggggga | catcttgggc | gcgaatgctt | cgccggggaa | 1740 |
| cagacagcgc | agggcgagca | gagcgaggaa | acgcagggaa | cgacgcgaca | gacaggaggt | 1800 |
| cagaagaagg | gaagatgagt | gcagcgggaa | gaccaacgga | gaaggagag | | 1849 |

<210> 157
 <211> 903
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (139)..(139)
 <223> a, c, g or t

<400> 157
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 aaacagctag gaccagatta cgccagcttc atgagacctc tcctatctgg gcacgttgag 120
 ttggtgact ctgggagcnc aggetgttgc ttccagctct ggtggtgaat cctccatggt 180
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 cttcagcagt ggtttaagga agtatcttaa tttttaaatc acatgttgac catgcagcca 300
 attgttggcc cgtagagtga acaaaaccag accacaagat tgagggcttg gagctggaga 360
 aagggaaaag aaaagcagg ctgtgactct ctggggaaag aactgaaaga tgacactagg 420
 aattctcaaa gcgagaggaa aaggaaaagg cctttttcgg aaatgacctc tgataaacac 480
 accctccagg gttacacctg cactgtgtc ttccaggac agacaagctg cacttttagca 540
 gtctgaata cctagagact tccttaacag agagtgggga atctcgtcat cttgcatggg 600
 gatgggagct cgaagggaga acctcagcct tccagaaggt tatataaac cagttgagaa 660
 ttccctaag aatggagcag tggacaaaca attgttattg taatccaat acatgagtct 720
 acctacataa tggagaaatg ctaacttaca gaaagcgta ggcttggtgt tctcgaaactg 780
 gttttaattt ccttttataa aattacagcg aattatacaa ttacattgat taattgtaat 840
 cagttctgag tctagataac aaacacaac acacacaaac aaacaaaca cctctctcca 900
 aac 903

<210> 158
 <211> 368
 <212> DNA
 <213> Homo sapien

<400> 158
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 tgctttgaa tcgcctcatt tgactagata cgatgtaatt ggctgtcttt aaaaaacgcg 120
 cacacacaca caatctgata ggcatactc atgcccattc aatatggaat gttcttcgct 180
 tgctgaattt aagcctgtat ttaaggttt gtggttcctc ggccacaatg ggtgatgtca 240

| | |
|---|-----|
| ctgatagaac gaagctgagt ttccaagggt tggggctgtg caagagtaaa cactagagct | 300 |
| tgagttgtta tccagctggc aagcacggaa gtctttgaag aatgtaatgt aaaaagggaa | 360 |
| aagaatgt | 368 |

<210> 159
 <211> 1548
 <212> DNA
 <213> Homo sapien

| | |
|--|------|
| <400> 159 | |
| gtcgcggcgc aggtacatag acacaggaca attaataatt tggaaaacaa aagacttact | 60 |
| tatctccata tctgctaatt gtctcccaat ctcccttaaaa tgcacttatt agcaatcatt | 120 |
| tttcaccacc catttaccca aacaacagga caaagactca atttcctatt ttatacaaaa | 180 |
| catgataagt cagccaagta ggttctggac cggacaacaa gggagatatt aaattatagt | 240 |
| atttatataa aagtggccca ttctgtgat acaaaacgtc tcattatgtg gaccaagaaa | 300 |
| catataaaat atatcaatat ataagttgga aaaaataaca aaaaagcaca cacattaata | 360 |
| aataatcata ttacacacac ccacatctat attctcttat atacacgcac acacaactgt | 420 |
| gtgtcttaac aacaaactct ccattttata aaatatctca ctgtatctct ttataaccac | 480 |
| aagaaagatg gaaacacaa aaacacccaa aacaagaca cacagaaatc atttgtgcgc | 540 |
| ctatatataa taatcacact cagtatatat aaccaacact tccccccca tatcatctaa | 600 |
| tttatgtagt actctataat gtatcatcta gtatattatg tagaaaagtg gcgcccata | 660 |
| tattatacag cggggcgccc acgtgtatat caaacaacag ctgttgtcgt tctgcccggg | 720 |
| gagcacaaaa ggtgtataac aacaatgat tatattcttc acccgaggaa gaagataatg | 780 |
| agaaggagtg aataataacc agcgaagaag gggcgggggg acataataac accgctaatc | 840 |
| aacaccaaag aacgcgggcc aaacgaaaca acaacacaaa cgagatgttg tgccacacct | 900 |
| cagtaacacc tacatgtcag cgcgcagcga caaaacaagg gcatgaccag aagaaacctg | 960 |
| aaaaaactgc ggcaaaggga accacaccac cgacacacac accccaatga ggaaagagaa | 1020 |
| taaaaaacac atagttgagg acaccaaaaa aaggacagga ggaanaaac actgtggggg | 1080 |
| gtgcaaaaaa cagctgtgtg taacaacacc gcaggagatc acaaaagaaa acaccccaag | 1140 |
| acacaacaaa atataagcga acaccacaac aacacaacaa cgaaacaaaa caagaaaaaa | 1200 |
| caaaacacac aaccgaaaca aacaacaaa acgaccacca gaagcacaca acacgagacc | 1260 |
| aggacaacac cagacgcaga cagacacgag atgatgcaca cgcgcacgcg ccgagccagc | 1320 |
| aaacggcacg ccaacaagca agacggccag cggagaacac gagcatgtcg aagtaggaca | 1380 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| gcccgcgaag | acgacaaaaa | accgaggaga | agagaggaag | aacacagaaa | cgcgcaggaa | 1440 |
| aggacaacgc | aggaggcgag | ataacggcgg | acaacgcgaa | gaaggcgagca | gagaagacag | 1500 |
| aaggcaagac | acgaaacaaa | aacacacaac | gaacaaacac | gcgagagg | | 1548 |

<210> 160
 <211> 552
 <212> DNA
 <213> Homo sapien

| | | |
|------------|------------|---|
| <400> 160 | | |
| agaagactga | ctcatatagg | gcgatggcca ctgatcatg ccgagcggcg ccattgtgat 60 |
| ggatctagct | ttggctactg | ccggtagtgg acaatatggc acatggaaat taaaaagtcc 120 |
| ataaacgtgc | cctcctaaca | cgagaataag aaaggtggct gaagtagata atttcagtga 180 |
| cggaggggat | gaaatatatt | ttggttaatt gatgtaatga tgactcacta tgccttattt 240 |
| cctattttta | aaaacacaga | atgagcaagt cattcctgaa caaaaattta ctgtgtgtat 300 |
| aacatacacc | tcaaaatgaa | ttttaaggga acatattact aatcaaataa cacagtttat 360 |
| gctttttcaa | tttccacaaa | ttgtaatta tgatacttaa gggaaccctt acaatatata 420 |
| acaagtcatt | tcaatatatt | tcattcctct taactctgta aagtttggtt tatgttatct 480 |
| tatctagaaa | gaaaactact | tacaaatctc attttccac aaaattaatt caacatccaa 540 |
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<210> 161
 <211> 3937
 <212> DNA
 <213> Homo sapien

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| cacctcggcc | tcaccaagtg | atgattttat ttttattttt aattgtatta atctgcactc 180 |
| agataatgac | tttgtgaagg | gtgtgtgttg tgtgcaaaac ttaaggtatt ggttgagagt 240 |
| taaatacatt | atttttataa | tatgttgggt atagtctagt tactaatgat tttttttaag 300 |
| tacttttata | aaaagttcat | ttttaaaatt gttgtttttt aaaagccaat atacgttgca 360 |
| gaattaggaa | cagtatttat | atttatttac acaagacatt gtgccatagc atcctagtaa 420 |
| aacaccttca | tgaatgagta | atgttatctc ccagaattac attaaaatta tttctaaaaa 480 |
| gtagcaaaag | cattaccttt | tgcttttaat gaccacaccc tcaccagctc ctggctcttt 540 |
| cttcactgtt | gcccttattt | tgaggcaatt tttcttaaaa tatgactttt atgcaccaca 600 |

| | |
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| tttagtagag gcagtgacat cagtgatctc agtaccacac agctgtcccc ctctctgccc | 660 |
| cttcttcacac tcttctacac tgtgaccatt tcccttaccg gttcatgttc tccctttatct | 720 |
| ctgctttttct ttcttagcca ggatacttcc ctccacaact tcactcccaa attcttttag | 780 |
| atatacattt ttctggatat tggctgctga aatctgaagc tctggtaaaag ttcttagtat | 840 |
| cagagatcaa tcttggagga ggcttagttc actattagat tacaagagact cctcacaaaag | 900 |
| taaggaaaaa tcaccttcaa aaccacaacc ctttatgttg tcaagtctaa tatgagtgtt | 960 |
| tttacgaagt atttctttct acccattggt caagaatgta aatgtaaaaa aaaatacaag | 1020 |
| agagtgggt agatatgcat gcttgaggaa acttgctttt actgttttcc tacttgatc | 1080 |
| cccagttcag ttgaatttac aaggacctac aagatggta tgtttgtctt ggtatgtgct | 1140 |
| accccaattt tagtgtttct ttctttatct taaatcagta attattcagt tgattgttta | 1200 |
| tactatataa tgaagtaaca aaacattttt ggtttgtatg ttttaagtaa cagttgtgca | 1260 |
| aattctctct gtttgttagg tgcctccctt gaataatttg tgaactgtgt cagagggaga | 1320 |
| gggggtggtg ctagggaag ggtagaaaag aagctagagg gaggtcagga gaagggtaac | 1380 |
| agggaggatg caaagcagac atctaccctg gtcacccacg gatcaggata tctgtccttg | 1440 |
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| ggaaactgtg gaattattct agctgtaact acctattggc tatgtgttga ttgacctag | 1680 |
| aaagaaaaaa taatttttca ttttagatct tgattgaatt taagatgtat ttatatgcct | 1740 |
| acaaaaggtc tgtctgttaa ctgttgtata aaataaacct aatctatggt ttcattttta | 1800 |
| atctaaaaaa agttgtgcct taacaatagg gcattgtatg ttaataaggg aaacaacct | 1860 |
| ttttagtaga tgggggaaaa taggaacttt ttgccattaa aacttaagtt cttttgatgt | 1920 |
| ttttaatatt atagttgggg gagattcatt aaaattaaat tgaataaaa ttatttttgc | 1980 |
| ataacctagc atttacaact aaagtatggt ttttataaga actggcatct tgatgtatat | 2040 |
| aggctgtaaa taatatttca tcttttgatt ttttaattta ataattatg accaggatag | 2100 |
| atcacagttt tacaatctt agtttttaaa aaattatttc agtgtgtctg tagtcctcta | 2160 |
| cagtcatttt ggtttaaaaa gtgactatct atttatggta gcataatca atttatttaa | 2220 |
| tgtaaaaaaa tactgtgtat gacattacaa accagaacag ttctgtgggg agaggattct | 2280 |
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<210> 162

<211> 852

<212> DNA

<213> Homo sapien

<400> 162
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 gggaggaaaa tttttacttt ccactttaat gtaaccttat gctattctgt atttttactg 360
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 aaaaaaagc aagtagcagc atcacaacac agagccacga caagaagaga aggacaatga 720
 cgaaaacgag cagcagcaca agacacagac aagacaaaag caagaaagac agaacacgac 780
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<210> 163
 <211> 685
 <212> DNA
 <213> Homo sapien

<400> 163
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 aaaaggataa ataagattt aaaag 685

<210> 164
 <211> 2396
 <212> DNA
 <213> Homo sapien

<400> 164
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 tttaaaaatat ctagtataca tgccttgact tcttataatat ataagtttgg ttttatacat 540
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 tataaaagca ccaggcagca gacagaaaagc cacatttgct agaaacttct cctccccctg 720
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<210> 165
 <211> 11
 <212> PRT
 <213> Homo sapien
 <400> 165

Met Arg Tyr Leu Pro Gly Leu Ser Ala Arg Ile
 1 5 10

<210> 166
 <211> 45
 <212> PRT
 <213> Homo sapien
 <400> 166

Met Ser Ile Pro Arg Ala Glu Ile Ser Leu Leu Glu Ser Phe Gln Leu
 1 5 10 15

Thr Ser Thr Val Ala Thr Ser Glu Ser His Lys Ser Asn Gly Ser Cys
 20 25 30

Arg Lys Pro His Leu Leu His Cys Pro Arg Ile Asn Gln
 35 40 45

<210> 167
 <211> 37
 <212> PRT
 <213> Homo sapien
 <400> 167

Met Ile Leu Gly Ser Asp Asn Gly Ile Arg Arg Ile Lys Tyr Leu Gly
 1 5 10 15

Ile Gln Tyr Tyr Ala Cys Ser Phe Phe Gln Ile Val His Gly Gly Gly
 20 25 30

Gly Cys Val Ser Gly
 35

<210> 168
 <211> 82
 <212> PRT
 <213> Homo sapien

<400> 168

Ser Leu Ser Val Ala Gln Ala Arg Val Gln Trp Arg Asp Pro Gly Ser
 1 5 10 15

Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Leu Ser Leu Ser Leu
 20 25 30

Pro Ser Ser Ala Gly Tyr Arg Arg Ala Pro Pro Pro Cys Pro Ala Leu
 35 40 45

Leu Tyr Phe Ala Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly
 50 55 60

Leu Glu Leu Leu Thr Ser Gly Asn Pro Ala Pro Pro Arg Pro Pro Lys
 65 70 75 80

Val Leu

<210> 169
 <211> 103
 <212> PRT
 <213> Homo sapien

Met Ala Ile Phe Ser Ala Leu Ser Gln Leu Leu Glu His Gly Leu Asp
1 5 10 15

Leu Glu Thr Ser Asn Lys Asp Phe Thr Ser Ile Pro Ala Ala Cys Trp
20 25 30

Trp Val Ile Ile Ser Met Thr Thr Val Gly Tyr Gly Asp Met Tyr Pro
35 40 45

Ile Thr Val Pro Gly Arg Ile Leu Gly Gly Val Cys Val Val Ser Gly
50 55 60

Ile Val Leu Leu Ala Leu Pro Ile Thr Phe Ile Tyr His Ser Phe Val
65 70 75 80

Gln Cys Tyr His Glu Leu Lys Phe Arg Ser Ala Arg Tyr Ser Arg Ser
85 90 95

Leu Ser Thr Glu Phe Leu Asn
100

<211> 131

<212> PRT

<213> Homo sapien

<400> 170

Arg Thr Ala Arg His Asp Tyr Ala Ser Cys Arg His Leu Met Val Phe
1 5 10 15

Ser Thr Arg Leu Thr Leu Lys Arg Cys Tyr Arg Glu Met Val Met Leu
20 25 30

Leu Val Phe Ile Cys Val Ala Met Ala Ile Phe Ser Ala Leu Ser Gln
35 40 45

Leu Leu Glu His Gly Leu Asp Leu Glu Thr Ser Asn Lys Asp Phe Thr
50 55 60

Ser Ile Pro Ala Ala Leu Leu Trp Val Ile Ile Ser Met Thr Thr Val
65 70 75 80

Gly Tyr Gly Asp Met Tyr Pro Ile Thr Val Pro Gly Arg Ile Leu Gly
85 90 95

Gly Leu Gly Ala Ala Ala Leu Ala Arg Leu Arg Glu Asp Glu Gly Cys
 100 105 110

Pro Val Pro Pro Glu Arg Pro Leu Pro Arg Arg Ala Phe Ala Arg Gln
 115 120 125

Leu Trp Leu Leu Phe Glu Phe Pro Glu Ser Ser Gln Ala Ala Arg Val
 130 135 140

Leu Ala Val Val Ser Val Leu Val Ile Leu Val Ser Ile Val Val Phe
 145 150 155 160

Cys Leu Glu Thr Leu Pro Asp Phe Arg Asp Asp Arg Asp Gly Thr Gly
 165 170 175

Leu Ala Ala Ala Ala Ala Ala Gly Pro Phe Pro Ala Pro Leu Asn Gly
 180 185 190

Ser Ser Gln Met Pro Gly Asn Pro Pro Arg Leu Pro Phe Asn Asp Pro
 195 200 205

Phe Phe Val Val Glu Thr Leu Cys Ile Cys Trp Phe Ser Phe Glu Leu
 210 215 220

Leu Val Arg Leu Leu Val Cys Pro Ser Lys Ala Ile Phe Phe Lys Asn
 225 230 235 240

Val Met Asn Leu Ile Asp Phe Val Ala Ile Leu Pro Tyr Phe Val Ala
 245 250 255

Leu Gly Thr Glu Leu Ala Arg Gln Arg Gly Val Gly Gln Gln Ala Met
 260 265 270

Ser Leu Ala Ile Leu Arg Val Ile Arg Leu Val Arg Val Phe Arg Ile
 275 280 285

Phe Lys Leu Ser Arg His Ser Lys Gly Leu Gln Ile Leu Gly Gln Thr
 290 295 300

Leu Arg Ala Ser Met Arg Glu Leu Gly Leu Leu Ile Phe Phe Leu Phe
 305 310 315 320

Ile Gly Val Val Leu Phe Ser Ser Ala Val Tyr Phe Ala Glu Val Asp
 325 330 335

Arg Val Asp Ser His Phe Thr Ser Ile Pro Glu Ser Phe Trp Trp Ala
 340 345 350

Val Val Thr Met Thr Thr Val Gly Tyr Gly Asp Met Ala Pro Val Thr
 355 360 365

Val Gly Gly Lys Ile Val Gly Ser Leu Cys Ala Ile Ala Gly Val Leu
 370 375 380

Thr Ile Ser Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Tyr Phe
 385 390 395 400

Tyr His Arg Glu Thr Glu Gly Glu Glu Ala Gly Met Phe Ser His Val
 405 410 415

Asp Met Gln Pro Cys Gly Pro Leu Glu Gly Lys Ala Asn Gly Gly Leu
 420 425 430

Val Asp Gly Glu Val Pro Glu Leu Pro Pro Pro Leu Trp Ala Pro Pro
 435 440 445

Gly Lys His Leu Val Thr Glu Val
 450 455

<210> 176

<211> 28

<212> PRT

<213> Homo sapien

<400> 176

Met Ser Tyr Asn Ser Lys Leu Glu Ser Ile Arg Leu Lys Arg Val Ser
 1 5 10 15

Met Lys Thr Ile Pro Lys Ile Pro Phe Thr Gln Asn
 20 25

<210> 177

<211> 91

<212> PRT

<213> Homo sapien

<400> 177

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Glu

Phe Glu His Lys Gly Cys Gln Arg Ile Leu Phe Ile Asn Asn Cys Gln
 35 40 45

Met Thr Asp Asp Ser Glu Tyr Tyr Val Thr Ala Gly Asp Ala Lys Cys
 50 55 60

Ser Thr Glu Leu Phe Val Arg Glu Pro Pro Phe Met Val Pro Ser Ser
 65 70 75 80

Trp Ile Glu Thr Pro Ala Asp Cys
 85

<210> 180

<211> 26

<212> PRT

<213> Homo sapien

<400> 180

Met Val Leu Tyr Ser Glu Gly His Gln His Gly Pro His Leu Leu Asn
 1 5 10 15

Met Glu Asn Gln Asn Leu Asn Glu Tyr Asn
 20 25

<210> 181

<211> 57

<212> PRT

<213> Homo sapien

<400> 181

Met Thr Glu Arg Ala Asp Gly Lys Ser Gln Ser Cys Ile Glu Glu Ile
 1 5 10 15

Ser Met Val Ala Leu Lys Leu Leu Lys Pro Asp Val Ser Ser Ala Ser
 20 25 30

His Trp Lys Met Asp Arg Trp Ala Asn His His Leu Thr Ser Gln Arg
 35 40 45

Glu Gly Gln Cys Ala Lys Val Phe Lys
 50 55

<210> 182

<211> 67

<212> PRT

<213> Homo sapien

<400> 182

Met Asn Thr Lys Ala Leu Pro Thr Thr Pro Ala Gln Thr Ala Ile Ser
 1 5 10 15

Pro Pro Glu Gly Gln Cys Ser Ser Ser Ile Gly Leu Glu Thr Ile Pro
 20 25 30

Glu Ser Pro Cys Phe Arg Thr Pro Glu Ser Ser Asn Ser Pro Ser Leu
 35 40 45

Arg Arg Asp Leu Leu Ala Ala Lys Arg Val Lys Leu Ile Val Leu Gln
 50 55 60

Ser Ser Ala
 65

<210> 183

<211> 91

<212> PRT

<213> Homo sapien

<400> 183

Asp Val Gly Gly Ala Gln Val Leu Ala Thr Gly Lys Thr Pro Gly Ala
 1 5 10 15

Glu Ile Asp Phe Lys Tyr Ala Leu Ile Gly Thr Ala Val Gly Val Ala
 20 25 30

Ile Ser Ala Gly Phe Leu Ala Leu Lys Ile Cys Met Ile Arg Arg His
 35 40 45

Leu Phe Asp Asp Asp Ser Ser Asp Leu Lys Ser Thr Pro Gly Gly Leu
 50 55 60

Ser Asp Thr Ile Pro Leu Lys Lys Arg Ala Pro Arg Arg Asn His Asn
 65 70 75 80

Phe Ser Lys Arg Asp Ala Gln Val Ile Glu Leu
 85 90

<210> 184

<211> 101

<212> PRT

<213> Homo sapien

<400> 184

Met Arg Pro Gly Arg Tyr Gln Ala Pro Arg Pro Phe Leu Tyr His Gly
1 5 10 15

Cys Trp Val Thr Ser Gly Ser His His Leu Phe Pro Ser Leu Phe Pro
20 25 30

Ile Ser Gln Met Trp Gly His Gly Leu Asp Asp Gly Leu His Arg Ser
35 40 45

Phe His Leu Cys Glu Ser Lys Ser Gly Gln Ser Ala Arg Thr His Leu
50 55 60

Cys Pro Gly Ser Ala Pro Gln Asn Gln Pro Pro Ala Ser Leu Lys Gln
65 70 75 80

Lys Pro His Leu Lys Gly Cys Ser Glu Glu Ser Thr Phe Ser Met Ser
85 90 95

Cys Cys Trp Lys Ile
100

<210> 185

<211> 489

<212> PRT

<213> Homo sapien

<400> 185

Gly Trp Thr Val Ile Gln Asn Arg Gln Asp Gly Ser Val Asp Phe Gly
1 5 10 15

Arg Lys Trp Asp Pro Tyr Lys Gln Gly Phe Gly Asn Val Ala Thr Asn
20 25 30

Thr Asp Gly Lys Asn Tyr Cys Gly Leu Pro Gly Asn Glu Gln Ala Cys
35 40 45

Lys Ile Lys Ser Phe Tyr Leu Lys Trp Asp Phe Phe Ala Leu Lys Asn
50 55 60

Ile His Cys Trp Lys Pro Val Leu Gly Ser Ala Glu Glu Phe Pro Asp
65 70 75 80

Lys Asn Val Glu Ala Lys Asp Lys Gly Arg Lys Ala Val Phe Ser Phe

95

Tyr Leu Tyr Leu Tyr Ile Leu Lys Cys Val Ala Lys Leu Ser Phe Ser
305 310 315 320

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Phe Pro Gly Phe Ser Asp Thr Lys Gly Cys Lys Ser Tyr Tyr Ser Ser
 325 330 335

Ile Lys Ala Gln Thr Gln Ser Leu Asp Gly Leu Pro Gln Arg Pro Ser
 340 345 350

Tyr Leu Ser Phe Leu Leu Ala Gly Thr Gly Gly Leu Trp Cys Ile Ser
 355 360 365

Val Thr Leu Cys Ile Ala Pro Lys Gly Lys Thr Thr Val His Thr Ser
 370 375 380

Val Ala Val Phe Tyr Gly Ala Ser Ala Lys Arg Asn Leu Thr Thr Val
 385 390 395 400

Val Leu Phe Leu Ile Thr Pro Asn Thr Phe Ser Phe Arg Leu Thr Ser
 405 410 415

Asp Pro Arg Lys Gln Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr
 420 425 430

Asn Arg Cys His Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly
 435 440 445

Gln Tyr Thr Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val
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Trp Met Asn Trp Lys Gly Ser Trp Tyr Ser Met Arg Lys Met Ser Met
 465 470 475 480

Lys Ile Arg Pro Phe Phe Pro Gln Gln
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 20 25 30
 Lys Gly Phe Met Leu Arg Lys Asn Pro
 35 40
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 Ile Arg Lys Pro Glu Ser Gln Ala Thr Lys Lys Lys Asn
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 20 25 30
 Ala Pro Leu Pro Ser Pro Pro Ser Ser His Thr Val Ser Ala Gly Cys
 35 40 45
 Gly Ser Pro Thr Ser Val Met Ser Gly Ile Met Leu Leu Leu Ser Leu
 50 55 60
 Leu Phe Ser Leu Phe Phe Phe Val Ile Gln Val Leu Leu Thr Ser
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 Ser Leu Ile His Gln Asn Ala Arg Ser Ser Tyr
 85 90

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Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu Phe His Ile Glu Gln
 20 25 30

Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys
 35 40 45

Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
 50 55 60

Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
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Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
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Thr Asp Leu Pro
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Arg Ser Trp Leu Gln Gly Ser Ser Gly Asn Arg Ile Pro Arg Ser His
 20 25 30

Glu Thr Ser Pro Asn Ser Ala Val Thr Glu Ser Thr Arg Gln Trp Leu
 35 40 45

Lys Asp Gly Glu Thr Ser
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Glu Ser Asn Gln Pro Arg Phe Gly Gly Trp Gly Thr Glu Asp Gly Ala
 20 25 30

Thr Phe Pro Pro Tyr Leu Leu Phe Phe Tyr Ile Pro Ile Cys Thr Leu
 35 40 45

Arg Ile His Leu Arg Ser Ser Phe Lys Arg Glu Lys Leu Asp Thr
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Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
 20 25 30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
 35 40 45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
 50 55 60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
 65 70 75 80

Arg Glu Glu Phe Thr Val Leu Gly Arg Gln Val Glu Asp Ala Gly Arg
 85 90 95

Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu
 100 105 110

Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp
 115 120 125

Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe
 130 135 140

Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu
 145 150 155 160

Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr
 165 170 175

Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu
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Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr
 195 200 205

Leu Lys Val
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Met Asp Asp Ser Lys Leu Gln Lys Lys Lys Asp Val Asp Lys His Cys
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Leu Thr Glu His Phe Ile Phe Ser Gln Leu Phe Trp Phe Leu Leu Ile
 20 25 30

Thr Met Thr Lys Met Leu Asp Ser Glu Leu Cys Arg Tyr Phe Ser Lys
 35 40 45

Phe Tyr Asp Phe Lys Ser
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Met Leu Gly Leu Gln Thr Leu Ser Arg Phe Leu Ser Gly His Pro Gly

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| 1 | | | | | 5 | | | | | | 10 | | | | | | | | 15 |
| Phe | Leu | Thr | His | | Cys | Leu | Lys | Ser | Arg | Trp | Gln | Val | | Pro | Ser | Leu | Asn | | |
| | | | 20 | | | | | | 25 | | | | | | 30 | | | | |
| His | Ser | Cys | Ala | | Pro | Glu | Asp | Ser | Gly | Pro | Lys | Leu | | Pro | Ser | Ser | Ala | | |
| | | 35 | | | | | | 40 | | | | | | 45 | | | | | |
| Cys | His | Ser | Leu | | Leu | Ile | | Ile | Ser | Ser | Ser | Asp | Gln | Val | Cys | Val | Met | | |
| | 50 | | | | | | | 55 | | | | | 60 | | | | | | |
| His | Leu | Ala | Gln | | Ala | Gln | Gly | Val | Pro | Arg | Arg | Asp | His | Asp | Pro | Ser | | | |
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| 1 | | | | | 5 | | | | | 10 | | | | | 15 | | | | |
| Asn | Thr | Gly | Ser | | Tyr | Lys | Ile | Gln | Arg | Glu | Leu | Ser | Gly | Gly | Lys | Thr | | | |
| | | | 20 | | | | | | 25 | | | | | 30 | | | | | |
| Gln | Glu | Pro | Asn | | Ser | Thr | His | Leu | Ile | Pro | Leu | Val | Asp | Gln | Leu | Asn | | | |
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| 1 | | | | | 5 | | | | | 10 | | | | | 15 | | | | |
| Gly | Val | Ile | Ser | | Ala | His | Cys | Asn | Phe | His | Leu | Leu | Gly | Ser | Ser | Ser | | | |
| | | | 20 | | | | | | 25 | | | | | 30 | | | | | |
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Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser Pro
145 150 155 160

Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile Gln

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Gly Leu Ala Val Pro Gly
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Met Glu Arg Ile Gly Thr Phe Tyr Ser Gly Asn Thr Gln Pro Ala Thr
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<211> 87

<212> PRT

<213> Homo sapien

Met Ala Glu Gly Val Gly Ala Gly Thr Leu Glu Ala Pro Pro Leu Leu
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Ser Leu Pro Ser Ala Ser Pro Val Pro Pro Ala Ala Leu Val Thr Val
20 25 30

Ser Asp Gly Tyr Leu Pro Gly Phe Val Ala Ser Leu Ser Val Phe Ser
35 40 45

Cys Ser Asp Pro Leu Ala Gly Trp Leu Arg Lys Lys Lys Met Cys Phe
50 55 60

Arg Cys His Cys Asn Pro Gly His Gln Gly Asn Pro Ser Phe Pro Phe
65 70 75 80

Leu Ile Cys Ser Pro Arg Thr
85

<211> 252

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Met Ser Ile Tyr Lys Glu Pro Pro Pro Gly Met Phe Val Val Pro Asp
1 5 10 15

Thr Val Asp Met Thr Lys Ile His Ala Leu Ile Thr Gly Pro Phe Asp
20 25 30

Thr Pro Tyr Glu Gly Gly Phe Phe Leu Phe Val Phe Arg Cys Pro Pro
35 40 45

Asp Tyr Pro Ile His Pro Pro Arg Val Lys Leu Met Thr Thr Gly Asn
50 55 60

Asn Thr Val Arg Phe Asn Pro Asn Phe Tyr Arg Asn Gly Lys Val Cys
65 70 75 80

Leu Ser Ile Leu Gly Thr Trp Thr Gly Pro Ala Trp Ser Pro Ala Gln
85 90 95

Ser Ile Ser Ser Val Leu Ile Ser Ile Gln Ser Leu Met Thr Glu Asn
100 105 110

Pro Tyr His Asn Glu Pro Gly Phe Glu Gln Glu Arg His Pro Gly Asp
115 120 125

Ser Lys Asn Tyr Asn Glu Cys Ile Arg His Glu Thr Ile Arg Val Ala
130 135 140

Val Cys Asp Met Met Glu Gly Lys Cys Pro Cys Pro Glu Pro Leu Arg
145 150 155 160

Gly Val Met Glu Lys Ser Phe Leu Glu Tyr Tyr Asp Phe Tyr Glu Val
165 170 175

Ala Cys Lys Asp Arg Leu His Leu Gln Gly Gln Thr Met Gln Asp Pro
180 185 190

Phe Gly Glu Lys Arg Gly His Phe Asp Tyr Gln Ser Leu Leu Met Arg
195 200 205

Leu Gly Leu Ile Arg Gln Lys Val Leu Glu Arg Leu His Asn Glu Asn
210 215 220

Ala Glu Met Asp Ser Asp Ser Ser Ser Ser Gly Thr Glu Thr Asp Leu
225 230 235 240

His Gly Ser Leu Arg Val His Gly Ser Leu Arg Val
245 250

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Met Ala Tyr Arg Met Lys Arg Gly Thr Arg Asn Pro Cys Gly Arg Gly
20 25 30

Leu Asp Leu Lys Gln Cys Pro Leu Trp Leu Leu Leu Pro Trp Leu Thr
35 40 45

Gly Phe Leu Asp His Val His Phe Thr Gly Pro Trp Asp Leu His Leu
50 55 60

Leu Ala Ser Pro Ala Gly Leu Ile Pro Ala Arg Ala Pro Ser Phe Leu
65 70 75 80

Leu Met Val Phe Arg Trp Pro Asp His Gly Lys
85 90

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20 25 30

Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser Gly Asp Pro Gly Cys
35 40 45

Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala Ala Ala Gly Ile Ala
50 55 60

Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala Ala Pro Ala Cys Leu
65 70 75 80

Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro Thr Gly Pro Arg Ser
85 90 95

Thr Met Glu Cys Pro Pro Ala Leu Ile Val His Pro Pro Thr Gly Gly
100 105 110

Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala Ala Ala Ser Ala Thr
115 120 125

Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile Pro Thr Glu Arg Pro
130 135 140

Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala Arg Ser His Trp Pro
145 150 155 160

Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala Pro Leu Pro Val Val
165 170 175

Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met Ser Arg Thr Trp Thr
180 185 190

Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala Glu Lys Leu Met Cys
195 200 205

Ser Ser Ser Arg Ser
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20 25 30

Glu Asp Asp Glu Arg Glu Arg Thr Trp Asn Tyr Leu Lys Ser Ser Asn
 35 40 45

Ser Leu Val Leu Phe Asn Lys Lys Glu Phe Trp Phe Val Ala Glu Ser
 50 55 60

Asp Leu Thr Ala Ala Asn Ser Ser Leu Leu Leu Arg Cys Ile Ser Asn
 65 70 75 80

Ser Lys Leu Asp Ala Pro Pro Ser Leu Phe Phe Pro
 85 90

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 20 25 30

Ser Gln Leu Ser Ser Gln Asp Gln Asp Pro Leu Gly His Ile Lys Ser
 35 40 45

Leu Leu Tyr Pro Phe Gly Phe Pro Val Glu Leu Pro Arg Pro Gly Pro
 50 55 60

Thr Gly Ala Tyr Lys Lys Val Lys Asn Gln Asn Gln Thr Thr Ser Ser
 65 70 75 80

Glu Leu Leu Arg Lys Gln Thr Ser His Phe Asn Gln Arg Gly His Arg
 85 90 95

Ala Arg Ser Lys Leu Leu Ala Ser Arg Gln Ile Pro Asp Arg Thr Phe
 100 105 110

Lys Cys Gly Lys Trp Leu Pro Gln Val Pro Ser Pro Val Val Pro Ser
 115 120 125

Pro Val
 130

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Phe Ser Ile Thr Ala Ser Tyr Asn Phe His Ile Phe Leu Leu Phe Leu
35 40 45

Thr Gly Leu Gln Val Leu Ser Asn Val Leu Lys Leu Phe Asn Val
50 55 60

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Ala Thr Lys Thr Lys Ala Pro Asp Asp Leu Val Ala Pro Val Val Lys
1 5 10 15

Lys Pro His Ile Tyr Tyr Gly Ser Leu Glu Glu Lys Glu Arg Glu Arg
20 25 30

Leu Ala Lys Gly Glu Ser Gly Ile Leu Gly Lys Asp Gly Leu Lys Ala
35 40 45

Gly Ile Glu Ala Gly Asn Ile Asn Ile Thr Ser Gly Glu Val Phe Glu
50 55 60

Ile Glu Glu His Ile Ser Glu Arg Gln Ala Glu Val Leu Ala Glu Phe
65 70 75 80

Glu Arg Arg Lys Arg Ala Arg Gln Ile Asn Val Ser Thr Asp Asp Ser
85 90 95

Glu Val Lys Ala Cys Leu Arg Ala Leu Gly Glu Pro Ile Thr Leu Phe
100 105 110

Gly Glu Gly Pro Ala Glu Arg Arg Glu Arg Leu Arg Asn Ile Leu Ser
 115 120 125
 Val Val Gly Thr Asp Ala Leu Lys Lys Thr Lys Lys Asp Asp Glu Lys
 130 135 140
 Ser Lys Lys Ser Lys Glu Glu Tyr Gln Gln Thr Trp Tyr His Glu Gly
 145 150 155 160
 Pro Asn Ser Leu Lys Val Ala Arg Leu Trp Ile Ala Asn Tyr Ser Leu
 165 170 175
 Pro Arg Ala Met Lys Arg Leu Glu Glu Ala Arg Leu His Lys Glu Ile
 180 185 190
 Pro Glu Thr Thr Arg Thr Ser Gln Met Gln Glu Leu His Lys Ser Leu
 195 200 205
 Arg Ser Leu Asn Asn Phe Cys Ser Gln Ile Gly Asp Asp Arg Pro Ile
 210 215 220
 Ser Tyr Cys His Phe Ser Pro Asn Ser Lys Met Leu Ala Thr Ala Cys
 225 230 235 240
 Cys Asp Glu Pro Val Ala Asp Ile Glu Gly His Thr Val Arg Val Ala
 245 250 255
 Arg Val Met Trp His Pro Ser Gly Arg Phe Leu Gly Thr Thr Cys Tyr
 260 265 270
 Asp Arg Ser Trp Arg Leu Trp Asp Leu Glu Ala Gln Glu Ile Leu
 275 280 285
 His Gln Glu Gly His Ser Met Gly Val Tyr Asp Ile Ala Phe His Gln
 290 295 300
 Asp Gly Ser Leu Ala Gly Thr Gly Gly Leu Asp Ala Phe Gly Arg Val
 305 310 315 320
 Trp Asp Leu Arg Thr Gly Arg Cys Ile Met Phe Leu Glu Gly His Leu
 325 330 335
 Lys Glu Ile Tyr Gly Ile Asn Phe Ser Pro Asn Gly Tyr His Ile Ala
 340 345 350

Thr Gly Ser Gly Asp Asn Thr Cys Lys Val Trp Asp Leu Arg Gln Arg
 355 360 365

Arg Cys Val Tyr Thr Ile Pro Ala His Gln Asn Leu Val Thr Gly Val
 370 375 380

Lys Phe Glu Pro Ile His Gly Asn Phe Leu Leu Thr Gly Ala Tyr Asp
 385 390 395 400

Asn Thr Ala Lys Ile Trp Thr His Pro Gly Trp Ser Pro Leu Lys Thr
 405 410 415

Leu Ala Gly His Glu Gly Lys Val Met Gly Leu Asp Ile Ser Ser Asp
 420 425 430

Gly Gln Leu Ile Ala Thr Cys Ser Tyr Asp Arg Thr Phe Lys Leu Trp
 435 440 445

Met Ala Glu
 450

<210> 211

<211> 34

<212> PRT

<213> Homo sapien

<400> 211

Met Glu Ala Gln Gly Cys His Asp Gly Ser Val Val Ile Arg Glu Gly
 1 5 10 15

Ala Pro Phe Ile Leu Leu Pro Thr Pro Leu Leu Cys Pro Phe Leu Pro
 20 25 30

Leu Ile

<210> 212

<211> 610

<212> PRT

<213> Homo sapien

<400> 212

Gly Lys Ala Phe Ile Thr Cys Arg Thr Leu Leu Asn His Lys Ser Ile
 1 5 10 15

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Phe | Gly | Asp | Lys | Pro | Tyr | Lys | Cys | Asp | Glu | Cys | Glu | Lys | Ser | Phe |
| | | 20 | | | | | | 25 | | | | 30 | | | |
| Asn | Tyr | Ser | Ser | Leu | Leu | Ile | Gln | His | Lys | Val | Ile | His | Thr | Gly | Glu |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Lys | Pro | Tyr | Glu | Cys | Asp | Glu | Cys | Gly | Lys | Ala | Phe | Arg | Asn | Ser | Ser |
| | | 50 | | | | 55 | | | | 60 | | | | | |
| Gly | Leu | Ile | Val | His | Lys | Arg | Ile | His | Thr | Gly | Glu | Lys | Pro | Tyr | Lys |
| | | 65 | | 70 | | | | | | 75 | | | | 80 | |
| Cys | Asp | Val | Cys | Gly | Lys | Ala | Phe | Ser | Tyr | Ser | Ser | Gly | Leu | Ala | Val |
| | | | | 85 | | | | 90 | | | | | | 95 | |
| His | Lys | Ser | Ile | His | Pro | Gly | Lys | Lys | Ala | His | Glu | Cys | Lys | Glu | Cys |
| | | 100 | | | | | | 105 | | | | 110 | | | |
| Gly | Lys | Ser | Phe | Ser | Tyr | Asn | Ser | Leu | Leu | Leu | Gln | His | Arg | Thr | Ile |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| His | Thr | Gly | Glu | Arg | Pro | Tyr | Val | Cys | Asp | Val | Cys | Gly | Lys | Thr | Phe |
| | | 130 | | | | 135 | | | | 140 | | | | | |
| Arg | Asn | Asn | Ala | Gly | Leu | Lys | Val | His | Arg | Arg | Leu | His | Thr | Gly | Glu |
| | | 145 | | 150 | | | | | | 155 | | | | 160 | |
| Lys | Pro | Tyr | Lys | Cys | Asp | Val | Cys | Gly | Lys | Ala | Tyr | Ile | Ser | Arg | Ser |
| | | | | 165 | | | | 170 | | | | | | 175 | |
| Ser | Leu | Lys | Asn | His | Lys | Gly | Ile | His | Leu | Gly | Glu | Lys | Pro | Tyr | Lys |
| | | 180 | | | | | | 185 | | | | 190 | | | |
| Cys | Ser | Tyr | Cys | Glu | Lys | Ser | Phe | Asn | Tyr | Ser | Ser | Ala | Leu | Glu | Gln |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| His | Lys | Arg | Ile | His | Thr | Arg | Glu | Lys | Pro | Phe | Gly | Cys | Asp | Glu | Cys |
| | | 210 | | | | 215 | | | | 220 | | | | | |
| Gly | Lys | Ala | Phe | Arg | Asn | Asn | Ser | Gly | Leu | Lys | Val | His | Lys | Arg | Ile |
| | | 225 | | 230 | | | | | | 235 | | | | 240 | |
| His | Thr | Gly | Glu | Arg | Pro | Tyr | Lys | Cys | Glu | Glu | Cys | Gly | Lys | Ala | Tyr |
| | | | | 245 | | | | 250 | | | | | | 255 | |

Ile Ser Leu Ser Ser Leu Ile Asn His Lys Ser Val His Pro Gly Glu
260 265 270

Lys Pro Phe Lys Cys Asp Glu Cys Glu Lys Ala Phe Ile Thr Tyr Arg
275 280 285

Thr Leu Thr Asn His Lys Lys Val His Leu Gly Glu Lys Pro Tyr Lys
290 295 300

Cys Asp Val Cys Glu Lys Ser Phe Asn Tyr Thr Ser Leu Leu Ser Gln
305 310 315 320

His Arg Arg Val His Thr Arg Glu Lys Pro Tyr Glu Cys Asp Arg Cys
325 330 335

Glu Lys Val Phe Arg Asn Asn Ser Ser Leu Lys Val His Lys Arg Ile
340 345 350

His Thr Gly Glu Arg Pro Tyr Glu Cys Asp Val Cys Gly Lys Ala Tyr
355 360 365

Ile Ser His Ser Ser Leu Ile Asn His Lys Ser Thr His Pro Gly Lys
370 375 380

Thr Pro His Thr Cys Asp Glu Cys Gly Lys Ala Phe Phe Ser Ser Arg
385 390 395 400

Thr Leu Ile Ser His Lys Arg Val His Leu Gly Glu Lys Pro Phe Lys
405 410 415

Cys Val Glu Cys Gly Lys Ser Phe Ser Tyr Ser Ser Leu Leu Ser Gln
420 425 430

His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Val Cys Asp Arg Cys
435 440 445

Gly Lys Ala Phe Arg Asn Ser Ser Gly Leu Thr Val His Lys Arg Ile
450 455 460

His Thr Gly Glu Lys Pro Tyr Glu Cys Asp Glu Cys Gly Lys Ala Tyr
465 470 475 480

Ile Ser His Ser Ser Leu Ile Asn His Lys Ser Val His Gln Gly Lys
485 490 495

Gln Pro Tyr Asn Cys Glu Cys Gly Lys Ser Phe Asn Tyr Arg Ser Val
500 505 510

Leu Asp Gln His Lys Arg Ile His Thr Gly Lys Lys Pro Tyr Arg Cys
515 520 525

Asn Glu Cys Ala His Ile Pro Asn Ala Thr Ala Asp Leu Met Lys Val
530 535 540

Asp His Glu Glu Glu Pro Gln Leu Ser Glu Pro Tyr Leu Ser Lys Gln
545 550 555 560

Lys Lys Leu Met Ala Lys Ile Leu Glu His Asp Asp Val Ser Tyr Leu
565 570 575

Lys Lys Ile Leu Gly Glu Leu Ala Met Val Leu Asp Gln Ile Glu Ala
580 585 590

Glu Leu Glu Lys Arg Lys Leu Glu Asn Glu Ala Leu Ser Gln Trp Lys
595 600 605

Glu Phe
610

<210> 213
<211> 47
<212> PRT
<213> Homo sapien

<400> 213

Met Cys Ala Lys Trp Gly Glu Ile Gly Ala Gly Lys Pro Ile Pro His
1 5 10 15

Arg Gly Pro Ala Leu Ala Pro Gly Ser Pro His Ala Phe Phe Val Phe
20 25 30

Phe Phe Phe Phe Ala Ser Asp Gln Phe Thr Thr Val Ser Trp Thr
35 40 45

<210> 214
<211> 25
<212> PRT
<213> Homo sapien

<400> 214

Met Glu Thr Pro Ser Leu Glu Gly Thr Pro Arg Lys Pro Cys His Gly
1 5 10 15

Leu Leu Ser Leu Ser Ser Leu Leu Leu
20 25

<210> 215
<211> 29
<212> PRT
<213> Homo sapien

<400> 215

Met Ser Ser Tyr Gly Met Gln Gly Thr Val Gly Ser Arg Val Ser Ile
1 5 10 15

Leu Pro Thr Arg Ala Gln Gly Gln Ala Gly Glu Val Arg
20 25

<210> 216
<211> 64
<212> PRT
<213> Homo sapien

<400> 216

Met Val Thr Leu Asp Leu Leu Glu Arg Ala Gln Cys Asp Gly Ser Trp
1 5 10 15

Ser Arg Arg Gly Thr Pro Leu Leu Phe Tyr Phe Phe Cys Lys Val Leu
20 25 30

Thr Leu Glu Gly Tyr Ser Ile Gln Ser Leu Asn Met Phe Phe Lys Arg
35 40 45

Asn Lys Glu Gln Ala Thr Ala Leu Leu Glu Ile Thr Asn Arg Phe Leu
50 55 60

<210> 217
<211> 50
<212> PRT
<213> Homo sapien

<400> 217

Met Glu Pro His Ile Met Lys Phe Asn Ser His Val Lys Thr Phe Cys
1 5 10 15

Ile Val Gly Cys Gln Lys Tyr Phe Pro Asn Phe Arg Leu Thr Cys Arg

30

Leu Asn Glu Pro His Phe Val Gly Ser Ala Tyr Val Pro Glu Ser Val

175

Ala Thr Tyr Thr Val Leu Phe Ile Gly Thr Gly Asp Gly Trp Leu Leu
385 390 395 400

Lys Ala Val Ser Leu Gly Pro Trp Val His Leu Ile Glu Glu Leu Gln
 405 410 415
 Leu Phe Asp Gln Glu Pro Met Arg Ser Leu Val Leu Ser Gln Ser Lys
 420 425 430
 Val Lys Leu Leu Phe Ala Gly Ser Arg Ser Gln Leu Val Gln Leu Pro
 435 440 445
 Val Ala Asp Cys Met Lys Tyr Arg Ser Cys Ala Asp Cys Val Leu Ala
 450 455 460
 Arg Asp Pro Tyr Cys Ala Trp Ser Val Asn Thr Ser Arg Cys Val Ala
 465 470 475 480
 Val Gly Gly His Ser Gly Ser Leu Leu Ile Gln His Val Met Thr Ser
 485 490 495
 Asp Thr Ser Gly Ile Cys Asn Leu Arg Gly Ser Lys Lys Val Arg Pro
 500 505 510
 Thr Pro Lys Asn Ile Thr Val Val Ala Gly Thr Asp Leu Val Leu Pro
 515 520 525
 Cys His Leu Ser Ser Asn Leu Ala His Ala Arg Trp Thr Phe Gly Gly
 530 535 540
 Arg Asp Leu Pro Ala Glu Gln Pro Gly Ser Phe Leu Tyr Asp Ala Arg
 545 550 555 560
 Leu Gln Ala Leu Val Val Met Ala Ala Gln Pro Arg His Ala Gly Ala
 565 570 575
 Tyr His Cys Phe Ser Glu Glu Gln Gly Ala Arg Leu Ala Ala Glu Gly
 580 585 590
 Tyr Leu Val Ala Val Val Ala Gly Pro Ser Val Thr Leu Glu Ala Arg
 595 600 605
 Ala Pro Leu Glu Asn Leu Gly Leu Val Trp Leu Ala Val Val Ala Leu
 610 615 620
 Gly Ala Val Cys Leu Val Leu Leu Leu Val Leu Ser Leu Arg Arg
 625 630 635 640

Arg Leu Arg Glu Glu Leu Glu Lys Gly Ala Lys Ala Thr Glu Arg Thr
645 650 655

Leu Val Tyr Pro Leu Glu Leu Pro Lys Glu Pro Thr Ser Pro Pro Phe
660 665 670

Arg Pro Cys Pro Glu Pro Asp Glu Lys Leu Trp Asp Pro Val Gly Tyr
675 680 685

Tyr Tyr Ser Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg Cys
690 695 700

Gln Pro Gly Gly Gly Pro Pro Ser Pro Pro Pro Gly Ile Pro Gly Gln
705 710 715 720

Pro Leu Pro Ser Pro Thr Arg Leu His Leu Gly Gly Gly Arg Asn Ser
725 730 735

Asn Ala Asn Gly Tyr Val Arg Leu Gln Leu Gly Gly Glu Asp Arg Gly
740 745 750

Gly Leu Gly His Pro Leu Pro Glu Leu Ala Asp Glu Leu Arg Arg Lys
755 760 765

Leu Gln Gln Arg Gln Pro Leu Pro Asp Ser Asn Pro Glu Glu Ser Ser
770 775 780

Val
785

<210> 219

<211> 66

<212> PRT

<213> Homo sapien

<400> 219

Met Lys Met Arg Ala Lys Ile Leu His Gln Asn Gly Asn Asp Pro Ile
1 5 10 15

Ser Pro Val Lys Ala Glu Trp Val Glu Trp Gly Leu Arg Val Trp Ile
20 25 30

Gln Cys Phe Glu Leu His Ser Ser Arg Glu Ala Val Gln Lys Gly Gly
35 40 45

Ile Leu Gly Asn Leu Arg Lys Ile Val Gly Glu Thr Ser Phe Leu Leu
 50 55 60

Val Ser
 65

<210> 220
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 220

Glu Val Glu Gly Arg Ser Ala Cys Met Ala Met Gly Leu Phe Phe Ile
 1 5 10 15

Pro Phe Leu Asn Cys Thr Gln Gln Gln Trp Phe Leu Leu Gly Leu Leu
 20 25 30

Lys Thr Ala Gly Ile Trp Glu Lys Glu His His Arg Leu Ser Gln His
 35 40 45

Gly Asn Ile Asn Leu Ile Pro Glu Lys Gly Arg Ser Pro Gln Arg Tyr
 50 55 60

Val Arg Phe Asn Ser Phe Ser Ser Gly Pro Gly Ser Ser Phe Ser Cys
 65 70 75 80

Ser Gly Leu Asn Arg Asp Ala Leu Ile Ser Leu Gly Ile Leu Leu Leu
 85 90 95

Val Leu Ser Leu Thr Ser Gly Ala Lys Ile Arg Arg Pro Glu Phe Gln
 100 105 110

Ile Tyr Ser Val Thr Gln Ser Leu Leu Gln Ser Leu Arg Asp Val Val
 115 120 125

<210> 221
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 221

Met Gly Ile Leu Glu Pro Gln Asp Val Arg Ala Gly Arg Asp Ala Ile
 1 5 10 15

Pro Val Tyr Thr Arg Gly Asn Ser Ser Arg Leu Trp Glu Gly Arg Arg
20 25 30

Val Leu Val Thr Glu Arg Glu Leu Lys Leu Arg Ile Pro Glu Ser Arg
35 40 45

Ser Cys Leu Pro Ser Ala Ile Phe Leu Pro Ile Asn Leu Cys Tyr Val
50 55 60

<210> 222

<211> 105

<212> PRT

<213> Homo sapien

<400> 222

Cys Lys Leu Phe Gly Arg Val Gly Asp Ala Val Ser Phe Cys His Pro
1 5 10 15

Gly Trp Ser Ala Val Ala Arg Ser Gln Leu Thr Ala Thr Ser Ala Leu
20 25 30

Gln Gly Ser Gly Asn Ser Ala Ser Val Ser Ala Val Ala Gly Ile Thr
35 40 45

Gly Met Arg His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr
50 55 60

Arg Phe His His Val Gly Gln Asp Gly Leu Glu Pro Leu Thr Ser Gly
65 70 75 80

Asp Leu Pro Ile Ser Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser
85 90 95

His Arg Ala Arg Pro Ala Asn Phe Phe
100 105

<210> 223

<211> 109

<212> PRT

<213> Homo sapien

<400> 223

Met Met Trp Leu Ser Val Gly Gly Gly Gly Arg Glu Trp Ser Glu Met
1 5 10 15

Leu Gly Val Val Trp Trp Trp Gly Gly Val Gly Val Trp Val Gly Val

30

Thr Thr Pro Pro His His Ala Pro Thr Pro His Thr Pro Pro Pro Thr

115

120

125

Thr Pro Pro Arg Pro Pro Thr Thr His Thr His Thr Pro Pro His Pro
130 135 140

Pro Thr Pro Pro Pro Leu Pro Thr Thr Thr Pro His Pro Thr Ser His
145 150 155 160

Ser Thr Leu Ser Pro His His Pro His Ser Thr Thr Ser Ser Leu Pro
165 170 175

Ser Thr His Asn Asn Ile Thr Asn Thr Pro Pro Ala His Thr Leu Thr
180 185 190

Pro His Thr Ser
195

<210> 225

<211> 92

<212> PRT

<213> Homo sapien

<400> 225

Met Thr Ser Leu Pro Glu Gly Pro Arg Ala Ser Glu Asp Gly Ala Thr
1 5 10 15

Pro Glu Ala Gly Gly Phe Thr Asn Ser Ser His Leu Tyr Arg Arg Pro
20 25 30

Ala Arg Cys Gln Ala Cys Trp Gln Ala Gln Gly Lys Ala His Ser Thr
35 40 45

Ser Arg His Gly Pro Cys Ser His Gly Ala Tyr Ser Leu Ala Arg Gln
50 55 60

Thr Arg Asn Lys Lys Leu Gln Ser Ser Val Glu Val Cys Arg Val Val
65 70 75 80

Gly Tyr Ser Asp Leu Ala Leu Tyr Thr His Phe Ala
85 90

<210> 226

<211> 42

<212> PRT

<213> Homo sapien

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<400> 226

Met Lys Ile Tyr Gly Ser Val Phe Gln Asn Asp Glu Glu Phe Gln Asp
 1 5 10 15

Gly Gly Ser Gly Lys Ile Leu Leu Gln Glu Lys Ser Val Leu Gly Pro
 20 25 30

Met Cys Lys His Leu Leu Arg Asn Leu Glu
 35 40

<210> 227

<211> 57

<212> PRT

<213> Homo sapien

<400> 227

Met Leu Ser Gln Arg Tyr Arg Lys Val Leu Leu Gly Pro Ser Val Thr
 1 5 10 15

Leu Ser Phe His Ile Pro Thr Leu His Arg Pro Ser Leu Gln Leu Pro
 20 25 30

Ala Pro Ala Pro His Cys Arg Ser Pro Gly Phe Cys Leu Glu Leu Asn
 35 40 45

Glu Glu Met Gly Pro Leu Ala Leu Ala
 50 55

<210> 228

<211> 205

<212> PRT

<213> Homo sapien

<400> 228

Gln Gln Gly Lys Leu Val Ala Asp Ser Ala Lys His Leu Gly Leu Lys
 1 5 10 15

His Val Val Tyr Ser Gly Leu Glu Asn Val Lys Arg Leu Thr Asp Gly
 20 25 30

Lys Leu Glu Val Pro His Phe Asp Ser Lys Gly Glu Val Glu Glu Tyr
 35 40 45

Phe Trp Ser Ile Gly Ile Pro Met Thr Ser Val Arg Val Ala Ala Tyr
 50 55 60

Phe Glu Asn Phe Leu Ala Ala Trp Arg Pro Val Lys Ala Ser Asp Gly
65 70 75 80

Asp Tyr Tyr Thr Leu Ala Val Pro Met Gly Asp Val Pro Met Asp Gly
85 90 95

Ile Ser Val Ala Asp Ile Gly Ala Ala Val Ser Ser Ile Phe Asn Ser
100 105 110

Pro Glu Glu Phe Leu Gly Lys Ala Val Gly Leu Ser Ala Glu Ala Leu
115 120 125

Thr Ile Gln Gln Tyr Ala Asp Val Leu Ser Lys Ala Leu Gly Lys Glu
130 135 140

Val Arg Asp Ala Lys Ile Thr Pro Glu Ala Phe Glu Lys Leu Gly Phe
145 150 155 160

Pro Ala Ala Lys Glu Ile Ala Asn Met Cys Arg Phe Tyr Glu Met Lys
165 170 175

Pro Asp Arg Asp Val Asn Leu Thr His Gln Leu Asn Pro Lys Val Lys
180 185 190

Ser Phe Ser Gln Phe Ile Ser Glu Asn Gln Gly Ala Phe
195 200 205

<210> 229

<211> 46

<212> PRT

<213> Homo sapien

<400> 229

Met Lys Lys Lys Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met
1 5 10 15

Ser Leu His Lys Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr
20 25 30

Val Leu Leu Ser Val Val Cys Phe Ser Phe Leu Ile Leu Ser
35 40 45

<210> 230

<211> 53

<212> PRT

<213> Homo sapien

<400> 230

Val Ala Gln Ala Gly Val Gln Trp Arg Asn Ala Asn Ser Leu Gln Pro
1 5 10 15

Ala Pro Ser Trp Leu Lys Gln Ala Leu His Leu Ser Pro Leu Ser Ser
20 25 30

Ala His Tyr Arg His Thr Pro Pro His Pro Ala Asn Phe Phe Glu Phe
35 40 45

Leu Glu Thr Gly Phe
50

<210> 231

<211> 30

<212> PRT

<213> Homo sapien

<400> 231

Met Gly Gln Val Gly Val Arg Gly Pro Gly Glu Val Arg Ala Leu Ser
1 5 10 15

Ser Lys Leu Ser Tyr Cys His Val Phe Val Pro Arg Arg Asp
20 25 30

<210> 232

<211> 39

<212> PRT

<213> Homo sapien

<400> 232

Met Val Phe Leu Gly Glu Leu Lys Thr Phe Ser Leu Val Ser Val Asn
1 5 10 15

Gln Arg Ala Phe Ser Leu Phe Leu Leu Ile Pro Ser Ser Pro Val
20 25 30

Asn Tyr Phe Ser Phe His Trp
35

<210> 233

<211> 107

<212> PRT

<213> Homo sapien

<400> 233

Phe Phe Phe Phe Leu Leu Phe Cys Asp Ser Leu Ala Leu Ser Pro
 1 5 10 15

Arg Leu Gln Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu
 20 25 30

Leu Gly Ser Ser Asn Ser Pro Val Ser Ala Ser Trp Val Ala Gly Thr
 35 40 45

Thr Gly Ala Cys His His Ala Trp Leu Thr Phe Val Phe Leu Val Glu
 50 55 60

Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu Phe Leu Thr Ser
 65 70 75 80

Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Glu Ile Thr Gly Val
 85 90 95

Ser His Arg Ala Trp Pro Val Cys Phe Phe Asn
 100 105

<210> 234

<211> 57

<212> PRT

<213> Homo sapien

<400> 234

Met Cys Ile Ile Leu Ser Ala His Ala Val Leu Gln Ala Ser Val Pro
 1 5 10 15

Leu Ala Val His Val Ser Pro His Ala Arg Ala Gly Pro Ser Trp Ser
 20 25 30

Ala Leu Val Ser Lys Trp Val Tyr Ala Glu Ala Asp Phe Gln Ser Val
 35 40 45

Ser Cys Pro Pro Ile Gln His Ser Arg
 50 55

<210> 235

<211> 50

<212> PRT

<213> Homo sapien

<400> 235

Met Lys Val Pro Ala Tyr Ile Asn His Leu Ala Arg Trp Trp Glu Ile
 1 5 10 15

Leu Cys Ser Ser Asn Val Leu Leu Val Leu Gly Arg Asp Gly Ala His
 20 25 30

Ser Gly Ala Lys Glu Asp Lys Lys Ser Met Gln Asn Leu Ser Leu Leu
 35 40 45

Met Ala
 50

<210> 236
 <211> 44
 <212> PRT
 <213> Homo sapien

<400> 236

Met His Asn Trp Asp Cys Trp Asn Gly Pro Arg His Thr Thr Ala Gly
 1 5 10 15

His Cys His Gln Glu Gly Ala Cys Val Leu Glu Gly Ser Gly Gln His
 20 25 30

Arg Leu Ala Asn Leu Glu Gly Ser Gln Arg Asp Ser
 35 40

<210> 237
 <211> 146
 <212> PRT
 <213> Homo sapien

<400> 237

Met Gly Ala Arg Val Pro His Ala Ala Asp Gly Pro Ser Gln Val Glu
 1 5 10 15

Leu Pro Gly Val Gln Ser Gly Ser Pro Leu Ala Asp Leu Met Leu Ser
 20 25 30

Asp Arg Trp Asp Lys Phe Phe Cys His Ser Ala Gly Leu Cys Pro Glu
 35 40 45

Ala Ser Leu Leu Ala Gly Cys Ala His Ala Trp Glu Lys Ala Trp Ala
 50 55 60

200

Val Asn Tyr Gly His Thr Cys Ser Leu Cys Gly His Cys Ser Pro Ala
65 70 75 80

Pro Ile Pro Ile Pro Pro His Pro Thr His Pro Asn Thr His Thr Pro
85 90 95

Arg Pro Gln Thr Pro Thr Pro Thr Thr Pro His Pro Pro Thr Pro Thr
100 105 110

Pro Pro His Pro Pro Gln His Pro His Pro Arg Pro Pro Pro Thr Ser
115 120 125

Thr His Pro Pro Thr His Asn Thr Pro His Thr Thr His His Gln His
130 135 140

His His
145

<210> 238

<211> 47

<212> PRT

<213> Homo sapien

<400> 238

Met Tyr Arg Gln Tyr Gly Pro Trp Cys Thr Asn Ala Ala Ser Gly Arg
1 5 10 15

Arg Asp Val Met Asp Gly Arg Gly Arg Gly Thr Phe Asn Pro Ser Ser
20 25 30

Pro Phe Pro Pro Ser Gly Ala Ser Tyr Glu Ile Ser Val His Phe
35 40 45

<210> 239

<211> 91

<212> PRT

<213> Homo sapien

<400> 239

Met Val Lys Ile Ser Phe Gln Pro Ala Val Ala Gly Ile Lys Gly Asp
1 5 10 15

Lys Ala Asp Lys Ala Ser Ala Ser Ala Pro Ala Pro Ala Ser Ala Thr
20 25 30

Glu Ile Leu Leu Thr Pro Ala Arg Glu Glu Gln Pro Pro Gln His Arg

35

40

45

Ser Lys Arg Gly Gly Ser Val Gly Gly Val Cys Tyr Leu Ser Met Gly
 50 55 60

Met Val Val Leu Leu Met Gly Leu Val Phe Ala Ser Val Tyr Ile Tyr
 65 70 75 80

Arg Tyr Phe Phe Leu Ala Gln Leu Ala Arg Asp
 85 90

<210> 240

<211> 188

<212> PRT

<213> Homo sapien

<400> 240

Met Arg Leu Val Gly Gly Val Gly Ser Phe Arg Leu Gly Gly Val Gly
 1 5 10 15

Cys Gly Gly Gly Gly Gly Gly Ala Gly Ala Gly Ser Trp Val Trp Met
 20 25 30

Gly Gly Trp Gly Gly Gly Ala Gly Ala Leu Trp Val Ala Val Val Gly
 35 40 45

Gly Ala Arg Trp Trp Gly Gly Ala Gly Trp Gly Ser Cys Gly Arg Val
 50 55 60

Leu Val Gly Gly Arg Ala Val Val Val Gly Arg Val Gly Val Val Gly
 65 70 75 80

Trp Gly Trp Trp Arg Val Val Val Ala Gly Cys Val Cys Gly Gly Gly
 85 90 95

Trp Arg Trp Trp Arg Ala Gly Val Gly Gly Gly Gly Gly Ala Val Ser
 100 105 110

Gly Pro Ser Gly Ala Gly Pro Gly Arg Arg Cys Ser Met Val Glu Arg
 115 120 125

Arg Arg Gly His Val Gly Ser Gly Gly Trp Ala Gly Arg Pro Gly Val
 130 135 140

Val Gly Val Trp Ala Arg Cys Val Leu Val Ala Gly Ala Val Trp Arg

145 150 155 160

Arg Gly Gly Ala Val Trp Glu Trp Arg Gly Leu Gly Cys Gly Ala Trp
165 170 175

Cys Val Gly Arg Ser Trp Gly Glu Cys Gly Gly Arg
180 185

<210> 241

<211> 110

<212> PRT

<213> Homo sapien

<400> 241

Met Lys Leu Thr Leu Ser Glu Val Lys Met Glu Val Ile Gly Val Pro
1 5 10 15

Trp Arg Asn Gly Ser His Cys Phe Ile Ser Ile Thr Pro Gln Leu Lys
20 25 30

Phe Thr Pro Val Ser Gly His Lys Asn Met Arg Lys Glu Pro Cys Cys
35 40 45

Phe His Lys Gly Asn His Ser Ser Leu Ser Pro Leu Leu Ile Asn Leu
50 55 60

Lys Ser Trp Thr Pro Ser Phe Leu His Trp Pro Arg Pro Thr Leu Thr
65 70 75 80

His Leu Glu Pro Leu Phe Arg Ala Glu Trp His Glu Tyr Val Tyr Leu
85 90 95

Gly Arg Asp Gln Ser Ile Thr Gln Arg Arg Leu Glu Gln His
100 105 110

<210> 242

<211> 102

<212> PRT

<213> Homo sapien

<400> 242

Met Pro Ser Leu Pro Thr Arg Ser Leu Leu Ser Pro Cys Val Leu Glu
1 5 10 15

Leu Glu Glu Leu Thr Cys Ala Leu Cys Thr Trp Ala Phe Leu Leu Leu
20 25 30

Met Leu Leu Pro Phe Ala Val Arg Gly Leu Leu Thr Met Ala Arg Gly
1 5 10 15

Asp Val Ser Glu Ile Gln Val Val Val Ala Ser Trp Ser Thr Gln Leu
20 25 30

Ala His Met Gln Glu Glu Gly Leu Trp Pro Leu Ser Arg Ala Gly Gly
35 40 45

Leu Leu Pro Gln Ala
50

<210> 245

<211> 183

<212> PRT

<213> Homo sapien

<400> 245

Leu Thr Pro Ala Gly Val Pro Trp Cys His Leu Gly Ser Leu Gln Pro
1 5 10 15

Leu Pro Pro Arg Phe Lys Ala Val Phe Ser Arg Leu Ala Pro Ser Leu
20 25 30

Glu Tyr Ala Trp Asp Tyr Arg Ala Pro Thr Ser His Ala Arg Leu Ile
35 40 45

Ser Leu Ala Phe Leu Val Glu Thr Gly Phe Ser Pro Thr Val Ala Arg
50 55 60

Leu Val Ser Asn Ser Trp Pro Pro Val Val Arg Pro Pro Leu Pro Ser
65 70 75 80

Gln Ser Ala Gly Ile Thr Gly Val Gly Pro Pro Cys Leu Ala Arg Pro
85 90 95

Ile Leu Pro Pro His Pro Phe Phe Phe Phe Phe Asp Met Glu Ser His
100 105 110

Ala Ile Thr Gln Ala Gly Val Gln Trp Arg His Leu Gly Ser Leu Gln
115 120 125

Pro Pro Pro Pro Met Phe Lys Ala Ser Ser Cys Leu Ser Leu Leu Ser
130 135 140

Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Ile Phe Cys Ile
145 150 155 160

Phe Ser Arg Asp Gly Val Ser Pro Cys Ala Pro Gly Trp Ser Arg Ser
165 170 175

Pro Asp Leu Thr Pro Asp Leu
180

<210> 246

<211> 12

<212> PRT

<213> Homo sapien

<400> 246

Met Ala Pro Asp Thr Asn Thr Phe Leu His Pro Phe
1 5 10

<210> 247

<211> 240

<212> PRT

<213> Homo sapien

<400> 247

Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
1 5 10 15

His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
20 25 30

Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
35 40 45

Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe
50 55 60

Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr Val Thr Gly Lys Trp
65 70 75 80

Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp
85 90 95

Gly Pro Asp Arg Asn Lys Thr Arg Thr Phe Gln Ala Thr Val Leu Gly
100 105 110

Arg Met Lys Arg Gly Lys Gly Met Gly His Lys
65 70 75

<210> 249
 <211> 594
 <212> PRT
 <213> Homo sapien

<400> 249

Val Pro Gly Arg Lys Leu His Arg Ser Arg Leu Gln Ala Ala Ala Pro
 1 5 10 15

Arg Pro Ser Thr Cys Ala Gln Ser Leu Cys Trp Ser Arg Pro Ala
 20 25 30

Ala Gly Thr Gly Thr Gly Asp Pro Ser Gln Ser Lys Ala Pro Thr Met
 35 40 45

Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile Ile
 50 55 60

Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu Asn
 65 70 75 80

Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu Gln
 85 90 95

Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala Glu
 100 105 110

Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn Glu
 115 120 125

Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu Phe
 130 135 140

Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser Pro
 145 150 155 160

Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly Ala
 165 170 175

Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His Phe
 180 185 190

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg
 195 200 205

Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg Ser
210 215 220

Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
225 230 235 240

Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His
245 250 255

Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro Glu
260 265 270

Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr Gly
275 280 285

Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile Cys
290 295 300

Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly Arg
305 310 315 320

Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys Ala
325 330 335

Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe Gln
340 345 350

Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu Phe
355 360 365

Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile Lys
370 375 380

Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile Gln
385 390 395 400

Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu Pro
405 410 415

Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe Ala
420 425 430

Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro Glu
435 440 445

Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu Ser
450 455 460

Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His Leu
465 470 475 480

Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp Trp
485 490 495

Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe Leu
500 505 510

Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly Asn
515 520 525

Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg Ala
530 535 540

Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu Tyr
545 550 555 560

Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro Ala
565 570 575

Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr Pro
580 585 590

Lys Ser

<210> 250
<211> 23
<212> PRT
<213> Homo sapien

<400> 250

Met Tyr Cys Ile Gly Gly Trp Ala Gly Pro Thr Leu Cys Tyr Val Lys
1 5 10 15

Glu Leu Val Leu Val Leu Gly
20

<210> 251
<211> 213
<212> PRT

<400> 251

Ala Thr Met Gly Gln Arg Ala Leu Pro Ser Ser Leu Ala Leu Leu Ser
20 25 30

Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser Gly Asp Pro Gly Cys
35 40 45

Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala Ala Ala Gly Ile Ala
50 55 60

Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala Ala Pro Ala Cys Leu
65 70 75 80

Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro Thr Gly Pro Arg Ser
85 90 95

Thr Met Glu Cys Pro Pro Ala Leu Ile Val His Pro Pro Thr Gly Gly
100 105 110

Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala Ala Ala Ser Ala Thr
115 120 125

Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile Pro Thr Glu Arg Pro
130 135 140

Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala Arg Ser His Trp Pro
145 150 155 160

Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala Pro Leu Pro Val Val
165 170 175

Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met Ser Arg Thr Trp Thr
180 185 190

Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala Glu Lys Leu Met Cys
195 200 205

Ser Ser Ser Arg Ser
210

<210> 252
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 252

Met His Glu Leu Thr Ala Arg Leu Thr Gln Pro Leu Asn Ser Gly Ser
 1 5 10 15

Cys Phe Ser Leu Ala Ala Ile His His Met Arg Arg Arg Ser Met His
 20 25 30

<210> 253
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 253

Met Ser Leu Gln Leu Gln Ile Leu Asn Val Ser Pro Val Ile Trp His
 1 5 10 15

Phe Arg His Ser Tyr Leu Lys Pro Gln Phe Ser Leu Pro Val Lys Trp
 20 25 30

Gly Ile Ile Ile Pro Ile Leu Pro Arg Leu Leu Lys Gly Leu Ser Glu
 35 40 45

Leu Ile Cys Lys Met Leu Asn Arg Thr Gln
 50 55

<210> 254
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 254

Met Gly Ser Ala Phe Val Leu Leu Ser Trp Arg Ala Cys Leu Cys Cys
 1 5 10 15

Arg Ala Val Ser Val Val Gly Ile Ala Leu Leu Phe Pro Ala Thr Gly
 20 25 30

Gln Ile

<210> 255

<211> 74
 <212> PRT
 <213> Homo sapien

<400> 255

Lys Arg Phe Phe Phe Phe Pro Ala Pro Ile Phe Cys Lys Thr Glu Val
 1 5 10 15

Pro Glu His Arg Arg Ser Ser Ser Gln Ala Asn Phe Ile Lys Lys Lys
 20 25 30

Leu Glu Val Cys Phe Asp Phe Ala Val Ile Cys Phe Ile Thr Ser Ile
 35 40 45

Phe Gly Glu Gln Pro Gln Leu Leu Ile Phe Met Glu Lys Tyr Phe Gln
 50 55 60

Val Gln Gly Gln Tyr Ile Ser Gln Ser Glu
 65 70

<210> 256
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 256

Met Ile Lys Val Cys Val Pro Ile Thr Phe Pro Leu Pro Glu Arg Arg
 1 5 10 15

Val Ser Arg Lys Ile Asn Ser Ile Leu Asp Ala Gly Thr Ser Pro Arg
 20 25 30

Pro Arg

<210> 257
 <211> 37
 <212> PRT
 <213> Homo sapien

<400> 257

Met Asn Ser Ser Asn Arg Arg Leu Phe Trp Lys Lys Ser Gln Gly Leu
 1 5 10 15

Ser Pro Ser Trp Val Ala Pro Tyr Lys Ser Asn Ser Ser Ser Gly Ser
 20 25 30

Leu Val Tyr Pro Leu
35

<210> 258
<211> 73
<212> PRT
<213> Homo sapien

<400> 258

Met Glu Phe Leu Leu Leu Glu Val Glu Lys Tyr Asn Ile Ile Lys Lys
1 5 10 15

Asp Val Ile Pro Thr Arg Gly Leu Arg Gly Lys Leu Lys Asp Ile Lys
20 25 30

Gln Ser Asn Leu Val Ile Val Lys Thr Ile Tyr Val Gly His Arg Thr
35 40 45

Glu Asp Gln Val Ser Lys Glu Asp Gly Ser Val Pro Phe Val Ser Pro
50 55 60

Val Pro Lys Ala Val Phe Gly Ala Ser
65 70

<210> 259
<211> 1533
<212> PRT
<213> Homo sapien

<400> 259

Met Tyr Ile Arg Val Ser Tyr Asp Thr Lys Pro Asp Ser Leu Leu His
1 5 10 15

Leu Met Val Lys Asp Trp Gln Leu Glu Leu Pro Lys Leu Leu Ile Ser
20 25 30

Val His Gly Gly Leu Gln Asn Phe Glu Met Gln Pro Lys Leu Lys Gln
35 40 45

Val Phe Gly Lys Gly Leu Ile Lys Ala Ala Met Thr Thr Gly Ala Trp
50 55 60

Ile Phe Thr Gly Gly Val Ser Thr Gly Val Ile Ser His Val Gly Asp
65 70 75 80

Ala Leu Lys Asp His Ser Ser Lys Ser Arg Gly Arg Val Cys Ala Ile
85 90 95

Gly Ile Ala Pro Trp Gly Ile Val Glu Asn Lys Glu Asp Leu Val Gly
100 105 110

Lys Asp Val Thr Arg Val Tyr Gln Thr Met Ser Asn Pro Leu Ser Lys
115 120 125

Leu Ser Val Leu Asn Asn Ser His Thr His Phe Ile Leu Ala Asp Asn
130 135 140

Gly Thr Leu Gly Lys Tyr Gly Ala Glu Val Lys Leu Arg Arg Leu Leu
145 150 155 160

Glu Lys His Ile Ser Leu Gln Lys Ile Asn Thr Arg Leu Gly Gln Gly
165 170 175

Val Pro Leu Val Gly Leu Val Val Glu Gly Gly Pro Asn Val Val Ser
180 185 190

Ile Val Leu Glu Tyr Leu Gln Glu Glu Pro Pro Ile Pro Val Val Ile
195 200 205

Cys Asp Gly Ser Gly Arg Ala Ser Asp Ile Leu Ser Phe Ala His Lys
210 215 220

Tyr Cys Glu Glu Gly Gly Ile Ile Asn Glu Ser Leu Arg Glu Gln Leu
225 230 235 240

Leu Val Thr Ile Gln Lys Thr Phe Asn Tyr Asn Lys Ala Gln Ser His
245 250 255

Gln Leu Phe Ala Ile Ile Met Glu Cys Met Lys Lys Lys Glu Leu Val
260 265 270

Thr Val Phe Arg Met Gly Ser Glu Gly Gln Gln Asp Ile Glu Met Ala
275 280 285

Ile Leu Thr Ala Leu Leu Lys Gly Thr Asn Val Ser Ala Pro Asp Gln
290 295 300

Leu Ser Leu Ala Leu Ala Trp Asn Arg Val Asp Ile Ala Arg Ser Gln
305 310 315 320

Leu Trp Gln Arg Gly Glu Glu Ser Met Ala Lys Ala Leu Val Ala Cys
 565 570 575

Lys Leu Tyr Lys Ala Met Ala His Glu Ser Ser Glu Ser Asp Leu Val
 580 585 590

Asp Asp Ile Ser Gln Asp Leu Asp Asn Asn Ser Lys Asp Phe Gly Gln
 595 600 605

Leu Ala Leu Glu Leu Leu Asp Gln Ser Tyr Lys His Asp Glu Gln Ile
 610 615 620

Ala Met Lys Leu Leu Thr Tyr Glu Leu Lys Asn Trp Ser Asn Ser Thr
 625 630 635

Cys Leu Lys Leu Ala Val Ala Ala Lys His Arg Asp Phe Ile Ala His
 645 650 655

Thr Cys Ser Gln Met Leu Leu Thr Asp Met Trp Met Gly Arg Leu Arg
 660 665 670

Met Arg Lys Asn Pro Gly Leu Lys Val Ile Met Gly Ile Leu Leu Pro
 675 680 685

Pro Thr Ile Leu Phe Leu Glu Phe Arg Thr Tyr Asp Asp Phe Ser Tyr
 690 695 700

Gln Thr Ser Lys Glu Asn Glu Asp Gly Lys Glu Lys Glu Glu Glu Asn
 705 710 715 720

Thr Asp Ala Asn Ala Asp Ala Gly Ser Arg Lys Gly Asp Glu Glu Asn
 725 730 735

Glu His Lys Lys Gln Arg Ser Ile Pro Ile Gly Thr Lys Ile Cys Glu
 740 745 750

Phe Tyr Asn Ala Pro Ile Val Lys Phe Trp Phe Tyr Thr Ile Ser Tyr
 755 760 765

Leu Gly Tyr Leu Leu Leu Phe Asn Tyr Val Ile Leu Val Arg Met Asp
 770 775 780

Gly Trp Pro Ser Leu Gln Glu Trp Ile Val Ile Ser Tyr Ile Val Ser

[illegible]

Arg Tyr Gln Leu Ile Met Thr Phe His Asp Arg Pro Val Leu Pro
 1025 1030 1035

Pro Pro Met Ile Ile Leu Ser His Ile Tyr Ile Ile Ile Met Arg
 1040 1045 1050

Leu Ser Gly Arg Cys Arg Lys Lys Arg Glu Gly Asp Gln Glu Glu
 1055 1060 1065

Arg Asp Arg Gly Leu Lys Leu Phe Leu Ser Asp Glu Glu Leu Lys
 1070 1075 1080

Arg Leu His Glu Phe Glu Glu Gln Cys Val Gln Glu His Phe Arg
 1085 1090 1095

Glu Lys Glu Asp Glu Gln Gln Ser Ser Ser Asp Glu Arg Ile Arg
 1100 1105 1110

Val Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu
 1115 1120 1125

Ile Asn Glu Arg Glu Thr Phe Met Lys Thr Ser Leu Gln Thr Val
 1130 1135 1140

Asp Leu Arg Leu Ala Gln Leu Glu Glu Leu Ser Asn Arg Met Val
 1145 1150 1155

Asn Ala Leu Glu Asn Leu Ala Gly Ile Asp Arg Ser Asp Leu Ile
 1160 1165 1170

Gln Ala Arg Ser Arg Ala Ser Ser Glu Cys Glu Ala Thr Tyr Leu
 1175 1180 1185

Leu Arg Gln Ser Ser Ile Asn Ser Ala Asp Gly Tyr Ser Leu Tyr
 1190 1195 1200

Arg Tyr His Phe Asn Gly Glu Glu Leu Leu Phe Glu Asp Thr Ser
 1205 1210 1215

Leu Ser Thr Ser Pro Gly Thr Gly Val Arg Lys Lys Thr Cys Ser
 1220 1225 1230

Phe Arg Ile Lys Glu Glu Lys Asp Val Lys Thr His Leu Val Pro
 1235 1240 1245

Glu Cys Gln Asn Ser Leu His Leu Ser Leu Gly Thr Ser Thr Ser
 1250 1255 1260

Ala Thr Pro Asp Gly Ser His Leu Ala Val Asp Asp Leu Lys Asn
 1265 1270 1275

Ala Glu Glu Ser Lys Leu Gly Pro Asp Ile Gly Ile Ser Lys Glu
 1280 1285 1290

Asp Asp Glu Arg Gln Thr Asp Ser Lys Lys Glu Glu Thr Ile Ser
 1295 1300 1305

Pro Ser Leu Asn Lys Thr Asp Val Ile His Gly Gln Asp Lys Ser
 1310 1315 1320

Asp Val Gln Asn Thr Gln Leu Thr Val Glu Thr Thr Asn Ile Glu
 1325 1330 1335

Gly Thr Ile Ser Tyr Pro Leu Glu Glu Thr Lys Ile Thr Arg Tyr
 1340 1345 1350

Phe Pro Asp Glu Thr Ile Asn Ala Cys Lys Thr Met Lys Ser Arg
 1355 1360 1365

Ser Phe Val Tyr Ser Arg Gly Arg Lys Leu Val Gly Gly Val Asn
 1370 1375 1380

Gln Asp Val Glu Tyr Ser Ser Ile Thr Asp Gln Gln Leu Thr Thr
 1385 1390 1395

Glu Trp Gln Cys Gln Val Gln Lys Ile Thr Arg Ser His Ser Thr
 1400 1405 1410

Asp Ile Pro Tyr Ile Val Ser Glu Ala Ala Val Gln Ala Glu Gln
 1415 1420 1425

Lys Glu Gln Phe Ala Asp Met Gln Asp Glu His His Val Ala Glu
 1430 1435 1440

Ala Ile Pro Arg Ile Pro Arg Leu Ser Leu Thr Ile Thr Asp Arg
 1445 1450 1455

Asn Gly Met Glu Asn Leu Leu Ser Val Lys Pro Asp Gln Thr Leu
 1460 1465 1470

Gly Phe Pro Ser Leu Arg Ser Lys Ser Leu His Gly His Pro Arg
1475 1480 1485

Asn Val Lys Ser Ile Gln Gly Lys Leu Asp Arg Ser Gly His Ala
1490 1495 1500

Ser Ser Val Ser Ser Leu Val Ile Val Ser Gly Met Thr Ala Glu
1505 1510 1515

Glu Lys Lys Val Lys Lys Glu Lys Ala Ser Thr Glu Thr Glu Cys
1520 1525 1530

<210> 260

<211> 92

<212> PRT

<213> Homo sapien

<400> 260

Met Ile Ile Leu Val Val Gly Arg Ile Thr Arg Gly Asn Ala Leu Tyr
1 5 10 15

Ser Gln Glu Glu Cys Cys Val Cys Thr Thr Gln Leu Thr Thr Trp Val
20 25 30

Val Cys Ser Thr Leu His Cys Val Ser Ile Leu Trp Ser Val Arg Pro
35 40 45

Ser Leu Ser Glu Gly Gly Tyr Leu Pro Leu Ala Ala Ser Val Ser Ala
50 55 60

Ala Ile Val Val Cys Phe Val Cys Val Cys Val Val Ser Cys His Asp
65 70 75 80

Ala Thr Ile Leu Leu Arg Ile Gly Asn Phe Gly Gly
85 90

<210> 261

<211> 66

<212> PRT

<213> Homo sapien

<400> 261

Met Glu Leu Leu Thr Asp Lys Gly Glu Ile Leu Asp Leu Glu Pro Phe
1 5 10 15

Pro Ala Ile Leu Leu Phe Ser Leu Cys Leu Gly Ser Trp Phe His Ser
20 25 30

Ala Arg His Glu Gly Pro Phe Gln Phe Asp Asp Ile Arg Leu Leu Thr
35 40 45

Leu Ser Trp Met Pro Cys Cys Leu Gln Gln His Asp Phe Thr Val Cys
50 55 60

Phe Ser
65

<210> 262

<211> 90

<212> PRT

<213> Homo sapien

<400> 262

Met Trp Asn Ile Pro Gly Leu Ala Gly Ala Met Pro Ala Met Gln Thr
1 5 10 15

Ser Pro Glu Pro Ser His Pro Gly Ser Val Arg Val Pro Arg Ala Val
20 25 30

Ala Pro His Pro Pro Pro Thr Gly Pro Cys Ser Trp Ser Cys Cys Asp
35 40 45

Ser Phe Ile Ile Pro Trp Ala Gly Val Gly Leu Ser Leu Cys Phe Cys
50 55 60

Leu Leu Phe Lys Glu Asp Glu Val Ser Met Glu Asn Lys Thr Asn Val
65 70 75 80

Val Thr Pro Ser Leu Arg Arg Val His Cys
85 90

<210> 263

<211> 13

<212> PRT

<213> Homo sapien

<400> 263

Met Ser Gly Gln Pro Arg Pro Thr Ser Pro Cys Val Leu
1 5 10

<210> 264
 <211> 100
 <212> PRT
 <213> Homo sapien

<400> 264

Phe Phe Leu Arg Trp Ser Leu Ala Gln Val Ala Gln Ala Ala Arg Gln
 1 5 10 15

Trp Leu Asn Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Arg
 20 25 30

Phe Ser Cys Leu Gly Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro
 35 40 45

Pro Arg Pro Ala Ile Phe Val Phe Leu Val Glu Met Gly Phe His His
 50 55 60

Ile Val Gln Ala Gly Leu Lys Pro Leu Thr Ser Gly Asp Leu Ala Thr
 65 70 75 80

Ser Ala Phe Gln Ser Ala Glu Ile Ile Gly Val Ser His Cys Ala Gln
 85 90 95

Pro Gln Lys Ser
 100

<210> 265
 <211> 10
 <212> PRT
 <213> Homo sapien

<400> 265

Met Lys Gly Lys Ile Leu Ile Phe Pro Ile
 1 5 10

<210> 266
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 266

Met Ser Pro Glu Pro Ser His Phe Ser Pro Pro Ala Pro Pro Ser Phe
 1 5 10 15

Ser Pro Thr His Pro Ser Leu Pro Leu Thr Trp Ile Ser Ala Pro Ala
 20 25 30

Ser Gln Glu Leu Leu Asp Glu His Gln Glu Met Arg Phe Lys Tyr Asn
20 25 30

Thr Glu Lys Cys Ala Gln Ala Gly Tyr His Pro Cys Trp Asn Leu Ala
35 40 45

Leu Ala Asn Trp Ala Thr Arg Val Pro Ala Arg Ala Asp Pro Ser Gln
50 55 60

Ser Ala Gly
65

<210> 269
<211> 23
<212> PRT
<213> Homo sapien

<400> 269

Met Thr Asp Leu Lys Glu Asn Ser Lys Ala Asp Leu Glu Asn Leu Leu
1 5 10 15

Leu Phe Leu Ser Pro Asn Pro
20

<210> 270
<211> 46
<212> PRT
<213> Homo sapien

<400> 270

Met Glu Asn Leu Ser Ser Ile Ser Glu Val Val Asn Ala Ile Ser Gly
1 5 10 15

Ile Gln Arg Leu Ala Val Lys Ser Ser Leu Gly Ser Leu Tyr Leu Thr
20 25 30

Phe Phe Leu Val Ser Ile Leu Lys Met Gln Ser His Ile Leu
35 40 45

<210> 271
<211> 15
<212> PRT
<213> Homo sapien

<400> 271

Met Thr Glu Glu Gly Glu Ser Leu Ser Gly Gln Ser Leu Gly Trp
1 5 10 15

<210> 272

<400> 272

Ser Pro Val Ile Phe Leu Phe Gly Pro Ile Trp Leu Leu Ile Leu Met
20 25 30

His Gln Asn Phe Met Tyr Asn His Met Asp Leu Tyr Val Asn
35 40 45

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<210> 273
<211> 32
<212> PRT
<213> Homo sapien
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<400> 273

Met Gly Arg Ala Leu Pro Leu Ser Ala Ala Pro Ser Leu Ser Leu Cys
1 5 10 15

Leu Pro Ala Gln Lys Arg Trp Leu Trp Pro Arg Gly Ser Gly Arg Asp
20 25 30

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<210> 274
<211> 224
<212> PRT
<213> Homo sapien
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<400> 274

Met Ala Val Gly Asn Ile Asn Glu Leu Pro Glu Asn Ile Leu Leu Glu
1 5 10 15

Leu Phe Thr His Val Pro Ala Arg Gln Leu Leu Leu Asn Cys Arg Leu
20 25 30

Val Cys Ser Leu Trp Arg Asp Leu Ile Asp Leu Val Thr Leu Trp Lys
35 40 45

Arg Lys Cys Leu Arg Glu Gly Phe Ile Thr Glu Asp Trp Asp Gln Pro
50 55 60

Val Ala Asp Trp Lys Ile Phe Tyr Phe Leu Arg Ser Leu His Arg Asn
65 70 75 80

Leu Leu His Asn Pro Cys Ala Glu Glu Gly Phe Glu Phe Trp Ser Leu
85 90 95

Asp Val Asn Gly Gly Asp Glu Trp Lys Val Glu Asp Leu Ser Arg Asp
100 105 110

Gln Arg Lys Glu Phe Pro Asn Asp Gln Val Arg Ser Gln Ala Arg Leu
115 120 125

Arg Val Gln Val Pro Ala Val Arg Ser Ala Pro Val Val Arg Ala Arg
130 135 140

Ala Ser Gly Asp Leu Pro Ala Arg Pro Gly Asp His Pro Ala Glu Glu
145 150 155 160

Arg Cys Gln Val Glu Gly Gly Leu Pro His Ile Leu Gln Leu Pro Ala
165 170 175

Arg Arg Pro Leu His Leu Val Ser Ala Arg Arg Arg Gly His Ser Leu
180 185 190

Leu Gly Arg Leu Val Arg Pro Glu Gly His Gln Gln Gln His His His
195 200 205

Arg Ala Pro Ala Ala Leu Thr Pro Pro Glu Pro Pro Ser Ala Glu Pro
210 215 220

<210> 275

<211> 33

<212> PRT

<213> Homo sapien

<400> 275

Met Gly Gly Gln Ala Thr Arg Tyr Tyr Ile Ile Asn Ile Leu Ser Gly
1 5 10 15

Lys Ile Ser Leu Phe Arg Ala Ile Arg Gln Val Ala Lys Asn Phe Ile
20 25 30

Leu

<210> 276

<211> 77

<212> PRT

<213> Homo sapien

<400> 276

Met Asn Gly Lys Thr Lys Val Glu Arg Asn Ile Leu Ser Tyr Ile Ile
1 5 10 15

Leu Gln Ile Lys Thr Phe Lys Asn Gln Ile Val Phe Leu Val Leu Arg
20 25 30

Thr Asn Arg Lys Cys Leu Ile Ile Tyr Phe Ile Ser Thr Arg Gln Lys
35 40 45

Tyr Ser Tyr Ala Ala Asp Val Arg Glu Gly Gly Glu Phe Pro Gln Pro
50 55 60

Ser Met Lys Lys Asp Lys Gly Pro Tyr Pro Leu Ala Val
65 70 75

<210> 277

<211> 39

<212> PRT

<213> Homo sapien

<400> 277

Met Tyr Val Arg Ser Ile His Leu Lys Ser Met Val Gln Ile Ala Lys
1 5 10 15

Ile Gly Pro Gly Glu Thr Cys Ser His Phe Leu Lys Thr Cys Thr Ser
20 25 30

Ala Ala Asn His Ala Thr Pro
35

<210> 278

<211> 26

<212> PRT

<213> Homo sapien

<400> 278

Met Pro Ile Arg Leu Cys Val Cys Ala Arg Phe Leu Lys Thr Ala Asn
1 5 10 15

Tyr Ile Val Ser Ser Gln Met Ser Gly Phe
20 25

<210> 279

<211> 149
 <212> PRT
 <213> Homo sapien

<400> 279

Met Leu Val Phe Ser Ala Gly Arg Leu Ala Cys Trp Arg Ala Val Cys
 1 5 10 15

Trp Leu Gly Arg Cys Ala Cys Ala Ser Ser Arg Val Cys Leu Arg Leu
 20 25 30

Val Leu Ser Trp Ser Arg Val Val Cys Phe Trp Trp Ser Phe Trp Leu
 35 40 45

Phe Val Ser Val Val Cys Phe Val Phe Ser Cys Phe Val Ser Leu Leu
 50 55 60

Cys Cys Cys Gly Val Arg Leu Tyr Phe Val Val Ser Trp Gly Val Phe
 65 70 75 80

Phe Cys Asp Leu Leu Arg Cys Cys Tyr Asp Asn Val Cys Phe Ala His
 85 90 95

Pro Thr Val Cys Phe Ser Ser Cys Pro Phe Phe Gly Val Leu Asn Tyr
 100 105 110

Val Phe Phe Ile Leu Phe Pro His Trp Gly Val Cys Val Gly Gly Val
 115 120 125

Val Pro Phe Ala Ala Val Phe Ser Gly Phe Phe Trp Ser Cys Pro Cys
 130 135 140

Phe Val Ala Ala Arg
 145

<210> 280
 <211> 54
 <212> PRT
 <213> Homo sapien

<400> 280

Met Ile Leu Lys Gly Thr Leu Thr Ile Tyr Asn Lys Ser Phe Gln Tyr
 1 5 10 15

Tyr Ser Ser Ser Leu Thr Ser Glu Ser Leu Val Tyr Val Ile Leu Ser
 20 25 30

Arg Lys Lys Thr Thr Tyr Lys Ser His Phe Pro Thr Lys Leu Ile Gln
 35 40 45

His Pro Thr Leu Lys Ile
 50

<210> 281
 <211> 114
 <212> PRT
 <213> Homo sapien

<400> 281

Val Ala Gly Ile Thr Gly Ile His His His Thr Gln Leu Phe Phe Cys
 1 5 10 15

Ile Phe Val Arg Asp Arg Phe Leu His Val Gly Gln Ala Gly Leu Glu
 20 25 30

Leu Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Asp Asp
 35 40 45

Phe Ile Phe Ile Phe Asn Cys Ile Asn Leu His Leu Asp Asn Asp Phe
 50 55 60

Val Lys Gly Val Cys Cys Val Gln Asn Leu Arg Tyr Trp Leu Arg Val
 65 70 75 80

Lys Tyr Ile Ile Phe Ile Ile Cys Trp Val Ala Ser Ser Tyr Ala Ala
 85 90 95

Phe Phe Leu Ser Thr Phe Ile Lys Ser Ser Phe Leu Lys Leu Phe Ile
 100 105 110

Ile Phe

<210> 282
 <211> 171
 <212> PRT
 <213> Homo sapien

<400> 282

Met Leu Phe Cys Ile Phe Thr Val Tyr Cys Phe Tyr Asn Lys Tyr Lys
 1 5 10 15

Leu Gly Ala Pro Glu Leu Met Pro Val Val Ile Ser Ala Met Leu Asp
35 40 45

Ala Arg Ser Gln Arg Ser Ala Ser Leu Ser Gln Leu Ala Cys Ala Ala
50 55 60

Leu Thr Trp Leu Pro Ala Val Leu Arg Asn Leu His Trp Trp Asp Lys
65 70 75 80

Gly Met Lys Arg Ile Asn Lys Asp Leu Lys
85 90

<210> 284

<211> 154

<212> PRT

<213> Homo sapien

<400> 284

Lys Glu Ala Pro Ser Ser Gln Asp Ile Leu Val Phe Leu Thr Gly Gln
1 5 10 15

Glu Glu Ile Glu Ala Met Ser Lys Thr Cys Arg Asp Ile Ala Lys His
20 25 30

Leu Pro Asp Gly Cys Pro Ala Met Leu Val Leu Pro Leu Tyr Ala Ser
35 40 45

Leu Pro Tyr Ala Gln Gln Leu Arg Val Phe Gln Gly Ala Pro Lys Gly
50 55 60

Tyr Arg Lys Val Ile Ile Ser Thr Asn Ile Ala Glu Thr Ser Ile Thr
65 70 75 80

Ile Thr Gly Ile Lys Tyr Val Val Asp Thr Gly Met Val Lys Ala Lys
85 90 95

Lys Tyr Asn Pro Asp Ser Gly Leu Glu Val Leu Ala Val Gln Arg Val
100 105 110

Ser Lys Thr Gln Ala Trp Gln Arg Thr Gly Arg Ala Gly Arg Glu Asp
115 120 125

Ser Gly Ile Cys Tyr Arg Leu Tyr Thr Glu Asp Glu Phe Glu Lys Phe
130 135 140

Asp Lys Met Thr Val Pro Glu Ile Gln Arg
145 150